

ICRC 2021

Monday, July 12, 2021 - Friday, July 23, 2021

Online
Programme

Monday 12 July 2021

Plenary: Opening (1:30 PM-3:30 PM)

Break (3:30 PM-4:00 PM)

Plenary: Highlight 01 (4:00 PM-5:30 PM)

-Conveners: Anna Franckowiak

time	title	presenter
4:00 PM	AMS Highlights	BERDUGO, Javier
4:30 PM	Neutrino Telescope in Lake Baikal: Present and Nearest Future	DZHILKIBAEV, Zhan-Arys
5:00 PM	Fermi LAT and GBM collaboration results on GRB 200415A.	DI LALLA, Niccolo

Break (5:30 PM-6:00 PM)

Discussion: 19 SEP Acceleration and Propagation | SH (6:00 PM-7:30 PM)

title	presenter	board
Turbulent Reduction of Drifts for Solar Energetic Particles	VAN DEN BERG, Jabus	
Anomalous Transport and Acceleration of Energetic Particles	EFFENBERGER, Frederic	
Electron acceleration parallel and perpendicular to overshoot magnetic field in quasi-perpendicular collisionless shock	OTSUKA, Fumiko	
Statistical Survey of Reservoir Phenomenon in Energetic Proton Events Observed by Multiple Spacecraft	WANG, Yang	
Parker Solar Probe's Measurements of the November 29, 2020 Large Solar Energetic Particle Event	COHEN, Christina	
Time Evolution of Parallel Shock Accelerated Particle Spectrum Bend-over Energy	QIN, Gang	
Observations and numerical simulations of impulsive SEP events with Ulysses and ACE observations	LIAN, L.-L.	
Imbalance acceleration/escape of energetic particles at interplanetary shocks: effect on spectral steepening	FRASCHETTI, Federico	
Energy Balance at Interplanetary Shocks: In-situ Measurement of the Fraction in Supra-thermal and Energetic Ions with ACE and Wind	DAVID, Liam	

Discussion: 51 The Census of Gamma-Ray Sources | GAD-GAI (6:00 PM-7:30 PM)

title	presenter	board
The TeV gamma-ray source population of the Milky-Way.	VECCHIOTTI, Vittoria	
Galactic Science with the Southern Wide-field Gamma-ray Observatory	LOPEZ-COTO, Ruben	
Exploring the population of Galactic very-high-energy gamma-ray sources	STEPPA, Constantin	
Understanding the origin of the extended gamma-ray emission and the physical nature of HESS J1841-055 using observations at TeV energies with the MAGIC telescopes	GREEN, David	

Survey of the Galactic Plane with the Cherenkov Telescope Array	REMY, Quentin	
The First Catalog of Extragalactic Fermi-LAT Transient Sources	MEREU, Isabella	
Source classification at GeV energies using neural networks with time variability and locations	VAN DEN OETELAAR, Chris	
Population Studies of Fermi LAT sources	ORLANDO, Elena	
Dissecting the inner Galaxy with gamma-ray pixel count statistics	MANCONI, Silvia	
The future look at the Galaxy with the Galactic Explorer with a Coded Aperture Mask Compton Telescope (GECCO)	ORLANDO, Elena	
The new release of the fourth Fermi LAT source catalog	LOTT, Benoit	
Bridging the Gap - The first sensitive 20-200 MeV catalog	MARCOTULLI, Lea	
Assessing the signatures imprinted by star-forming galaxies in the cosmic gamma-ray background	OWEN, Ellis	

Discussion: 31 Fundamental Physics with Neutrinos | NU (6:00 PM-7:30 PM)

title	presenter	board
HE Neutrinos beyond Standard Model: sterile and secret interactions	SAVIANO, Ninetta	
Reaching the EeV frontier in neutrino-nucleon cross sections in upcoming neutrino telescopes	VALERA, Victor	
Rigorous predictions for prompt neutrino fluxes in view of VLNT upgrades	GARZELLI, Maria Vittoria	
Studying neutrinos at the LHC-FASER ~ its impact to the cosmic-ray physics	ARIGA, Akitaka	
Measuring the Neutrino Cross Section Using 8 years of Upgoing Muon Neutrinos	ROBERTSON, Sally	
Measuring neutrino cross-section with IceCube at intermediate energies (~100 GeV to a few TeV)	NOWICKI, Sarah	
The Future of High-Energy Astrophysical Neutrino Flavor Measurements	SONG, Ningqiang	
Search for nuclearites with the KM3NeT detector	PAUN, Alice	
Scalar Non Standard Interactions at long baseline experiments	MEDHI, Abinash	
IceCube constraints on Violation of Equivalence Principle	FIORILLO, Damiano Francesco Giuseppe	
Search for Magnetic Monopoles with ten years of ANTARES data	BOUMAAZA, Jihad	
Sensitivity of the KM3NeT/ORCA detector to the neutrino mass ordering and beyond	PERRIN-TERRIN, Mathieu	
Search for STaus in IceCube	SCHMIDT-DENCKER, Jan-Henrik	
Search for exotic neutrino interactions by XMASS-I detector	OGAWA, Hiroshi	

Discussion: 25 Blazars, AGN | MM (6:00 PM-7:30 PM)

title	presenter	board
A Two-zone Blazar Radiation Model for "Orphan" Neutrino Flares	XUE, Rui	
Extrapolating FR-0 radio galaxy source properties from the propagation of multi-messenger ultra-high-energy cosmic rays	LUNDQUIST, Jon Paul	
High-Energy Neutrinos from NGC 1068	ANCHORDOQUI, Luis	

Testing the AGN Radio and Neutrino correlation using the MOJAVE catalog and 10 years of IceCube Data	DESAI, Abhishek	
Fermi-LAT realtime follow-ups of high-energy neutrino alerts	GARRAPPA, Simone	
Multimessenger NuEM Alerts with AMON	AYALA, Hugo	
Searching for VHE gamma-ray emission associated with IceCube neutrino alerts using FACT, H.E.S.S., MAGIC, and VERITAS	SATALECKA, Konstancja	
Multi-wavelength and neutrino emission from blazar PKS 1502+106	RODRIGUES, Xavier	
TELAMON: Monitoring of AGN with the Effelsberg 100-m Telescope in the Context of Astroparticle Physics	KADLER, Matthias	
Monte Carlo Simulations of Propagation and Emission of CR protons from Magnetic Reconnection in Poynting Flux Dominated Jets.	RODRÍGUEZ-RAMÍREZ, Juan Carlos	
High-energy neutrinos and gamma-rays from the AGN-driven wind in NGC 1068	INOUE, Susumu	
Testing high energy neutrino emission from the Fermi Gamma-ray Space Telescope Large Area Telescope (4LAC) sources.	GALVÁN, Antonio	
The Neutrino Contribution of Gamma-Ray Flares from Fermi Bright Blazars	YOSHIDA, Kenji	
Radio astronomy locates the neutrino origin in bright blazars	PLAVIN, Alexander	
Probing Neutrino Emission from X-ray Blazar Flares observed with Swift-XRT	STATHOPOULOS, Stamatios Ilias	

Discussion: 01 Magnetic Fields and CR Propagation | CRI (6:00 PM-7:30 PM)

title	presenter	board
Extragalactic magnetic fields and directional correlations of ultra-high-energy cosmic rays with local galaxies and neutrinos	VLIET, Arjen Rene van	
Phenomenology of CR-scattering on pre-existing MHD modes	FORNIERI, Ottavio	
Magnetic field generation by the first cosmic rays	OHIRA, Yutaka	
Faraday rotation constraints on large scale Halo model	FITOUSSI, Thomas	
Magnetic field structure in halos of star-forming disk galaxies	DETTMAR, Ralf-Jürgen	
CRPropa 3.2: a framework for high-energy astroparticle propagation	ALVES BATISTA, Rafael	

Tuesday 13 July 2021

Discussion: 02 Constraining UHECR sources | CRI (12:00 PM-1:30 PM)

title	presenter	board
UHECR from high- and low-luminosity GRBs	RUDOLPH, Annika	
FR-0 jetted active galaxies: extending the zoo of candidate sites for UHECR acceleration	MERTEN, Lukas	
Ultrahigh-energy cosmic-ray interactions as the origin of VHE gamma-rays from BL Lacs	DAS, Saikat	
Cosmographic model of the astroparticle skies	BITEAU, Jonathan	
Active galactic nuclei as neutrino sources in the PeV and EeV regimes	RODRIGUES, Xavier	
Constraining the origin of UHECRs and astrophysical neutrinos	MUZIO, Marco	
Thermal-to-nonthermal element abundances in different Galactic environments	EICHMANN, Björn	
The problematic connection between low-luminosity gamma-ray bursts and ultra-high-energy cosmic rays	SAMUELSSON, Filip	
Excited isomer photons and the VHE emission from Centaurus A	MOREJON, Leonel Raul	
Transient Source for the Highest Energy Galactic Cosmic Rays	FARRAR, Glennys	
A combined fit of energy spectrum, shower depth distribution and arrival directions to constrain astrophysical models of UHECR sources	BISTER, Teresa	
Features of a single source describing the very end of the energy spectrum of cosmic rays	BAKALOVA, Alena	

Discussion: 29 Outreach online | O&E (12:00 PM-1:30 PM)

title	presenter	board
Armagh Observatory and Planetarium's Outreach Programme for the Cherenkov Telescope Array	BURTON, Michael	
Multi-messenger Astroparticle Physics for the Public via the astroparticle.online Project	TOKAREVA, Victoria	
Outreach activities at the Pierre Auger Observatory	CABALLERO MORA, Karen Salomé	
Virtual tours to the KATRIN experiment	KLEIN, Manuel	
The online laboratories for OCRA - Outreach Cosmic Ray Activities INFN project	ARAMO, Carla	
Neutrino Education, Outreach and Communications Activities: Captivating Examples from IceCube	O'KEEFE, Madeleine	
The Fermi Masterclass Online Edition 2020	RAINO, Silvia	
Astronomy Outreach and Education in Namibia: H.E.S.S. and beyond	DALGLEISH, Hannah	
#meetTheMAGICians: Science communication and visibility of young researchers	VAN SCHERPENBERG, Juliane	
2' science: A Science Communication Project for Astrophysics	KANTZAS, Dimitrios	

Discussion: 15 Future instrumentation | CRD-MM (12:00 PM-1:30 PM)

title	presenter	board
The Roadmap to the POEMMA Mission	OLINTO, Angela V.	
The High Energy cosmic-Radiation Detection (HERD) facility on board the Chinese Space Station: hunting for high-energy cosmic rays	GARGANO, Fabio	
Cosmic-ray isotope measurements with HELIX	PARK, Nahee	
The TIGERISS instrument	MITCHELL, John	
The High Energy Particle Detector (HEPD-02) for the second China Seismo-Electromagnetic Satellite (CSES-02)	DE SANTIS, Cristian	

Discussion: 32 Cherenkov Media & Detector Calibration | NU (12:00 PM-1:30 PM)

title	presenter	board
A calibration study of local ice and optical sensor properties in IceCube	CHIRKIN, Dmitry	
Deployment of the IceCube Upgrade Camera System in the SPICEcore hole	KIM, Danim	
POCAM in the IceCube Upgrade	KHERA, Nikhita	
Design, performance, and analysis of a measurement of optical properties of antarctic ice below 400 nm	BROSTEAN-KAISER, Jannes	
The Acoustic Module for the IceCube Upgrade	GÜNTHER, Christoph	
Monitoring of optical properties of deep lake water	RYABOV, Evgenii	
KM3NeT Detection Unit Line Fit reconstruction using positioning sensors data	POIRÈ, Chiara	
Method and device for tests of the laser optical calibration system for the Baikal-GVD underwater neutrino Cherenkov telescope	KOPAŃSKI, Konrad	
Positioning system for Baikal-GVD	AVRORIN, Alexander	
In-situ gain calibration based on single byte PMT signals	JUNG, Bouke	
Development of an in-situ calibration device of firm properties for Askaryan neutrino detectors	BEISE, Jakob	
Camera Calibration for the IceCube Upgrade and Gen2	KANG, Woosik	
Luminescence of ice as a new detection channel for neutrino telescopes	POLLMANN, Anna	
The Calibration Units of KM3NeT : multi-purpose calibration devices	LE BRETON, Rémy	
Development of calibration system for a project of a new Baksan Large Neutrino Telescope	USHAKOV, Nikita	

Discussion: 52 Analysis, Methods, Catalogues, Community Tools, Machine Learning... | GAD-GAI (12:00 PM-1:30 PM)

title	presenter	board
Classification of Fermi-LAT sources with deep learning	MANCONI, Silvia	
Gamma ray study with Machine Learning	GONZALEZ GALICIA, Enrique	
Detection methods for the Cherenkov Telescope Array at very-short exposure times	DI PIANO, Ambra	

Application of Pattern Spectra and Convolutional Neural Networks to the Analysis of Simulated Cherenkov Telescope Array Data	ASCHERSLEBEN, Jann	
Source-morphology-independent background estimation for extended gamma-ray sources	SHANG, Ruo Yu	
Analysis of the Cherenkov Telescope Array first Large Size Telescope real data using convolutional neural networks	VUILLAUME, Thomas	
Analysis optimisation for more than 10 TeV gamma-ray astronomy with IACTs	LYPOVA, Iryna	
Deep-learning-driven event reconstruction applied to simulated data from a single Large-Sized Telescope of CTA	GRESPLAN, Pietro	
Convolutional Neural Networks for Low Energy Gamma-Ray Air Shower Identification with HAWC	WATSON, Ian	
A 3D likelihood analysis for KM2A data	HUANG, Xiaoyuan	
A maximum-likelihood-based technique for detecting extended gamma-ray sources with VERITAS	CHROMEY, Alisha	
Identifying muon rings in VERITAS data using convolutional neural networks trained on Muon Hunters 2-classified images	FLANAGAN, Kevin	
Fast simulation of gamma/proton event images for the TAIGA-IACT experiment using generative adversarial networks	DUBENSKAYA, Julia	
Studies of Gamma Ray Shower Reconstruction Using Deep Learning	BYLUND, Tomas	
Development of hybrid reconstruction techniques for TAIGA	BLANK, Michael	
The use of convolutional neural networks for processing images from multiple IACTs in the TAIGA experiment	POLYAKOV, Stanislav	
A new Probabilistic Neural Network based method for sensitivity improvement of MACE gamma-ray telescope.	DHAR, V K	
Gammapy: a Python Package for Gamma-Ray Astronomy	DONATH, Axel	
Using Machine Learning for gamma/hadron separation with HAWC	CAPISTRÁN, Tomás	
Prototype Open Event Reconstruction Pipeline for the Cherenkov Telescope Array	NÖTHE, Maximilian	
The identification of proton and gamma components in cosmic-rays based on deep learning algorithm	ZHANG, F	
Bayesian Deep Learning for Shower Parameter Reconstruction in Water Cherenkov Detectors	BOM, Clecio R.	
Reconstruction of stereoscopic CTA events using deep learning with CTLearn	MIENER, Tjark	
Matched Runs Method to Study Extended Regions of Gamma-ray Emission	HONA, Binita	
Deep Learning Transient Detection with VERITAS	PFRANG, Konstantin Johannes	
Reconstruction of extensive air shower images of the Large Size Telescope prototype of CTA using a novel likelihood technique	EMERY, Gabriel	
Deep-learning applications to the multi-objective optimisation of IACT array layouts.	FRAGA, Bernardo	
New methods to reconstruct Xmax and the energy of gamma-ray air showers with high accuracy in large wide-field observatories	CONCEIÇÃO, Ruben	

Break (1:30 PM-2:00 PM)

Plenary: Review 01 (2:00 PM-3:30 PM)**-Conveners: Jim Hinton**

time	title	presenter
2:00 PM	Constraining Magnetic Fields at Galactic Scales	JAFFE, Tess
2:45 PM	Gamma-Ray Bursts detected at Very High Energies	NAVA, Lara

Break (3:30 PM-4:00 PM)**Plenary: Highlight 02 (4:00 PM-5:30 PM)****-Conveners: Stefan Funk**

time	title	presenter
4:00 PM	Tidal disruption event coincident with a high-energy neutrino	STEIN, Robert
4:30 PM	Transition from Galactic to Extragalactic Cosmic Rays	KÄÄPÄ, Alex
5:00 PM	Physics of gamma-ray burst afterglow: implications of H.E.S.S. observations	KHANGULYAN, Dmitry

Break (5:30 PM-6:00 PM)**Discussion: 08 Radio Observations of Cosmic Rays | CRI-NU (6:00 PM-7:30 PM)**

title	presenter	board
Self-trigger radio prototype array for GRAND	ZHANG, Yi	
Modeling and Validating RF-Only Interferometric Triggering with Cosmic Rays for BEACON	ZEOLLA, Andrew	
TAROGÉ-M: Radio Observatory on Antarctic High Mountain for Detecting Near-Horizon Ultra-High Energy Air Showers	WANG, Shih-Hao	
The NuMoon Experiment: Lunar Detection of Cosmic Rays and Neutrinos with LOFAR	KRAMPAH, Godwin Komla	
Radio-Morphing: a fast, efficient and accurate tool to compute the radio signals from air-showers	CHICHE, Simon	
The Zettavolt Askaryan Polarimeter (ZAP) mission concept: radio detection of ultra-high energy cosmic rays in low lunar orbit.	ROMERO-WOLF, Andres	
Reconstructing inclined extensive air showers from radio measurements	HUEGE, Tim	
Cross-calibrating the energy scales of cosmic-ray experiments using a portable radio array	MULREY, Katharine	
First results from the AugerPrime Radio Detector	FODRAN, Tomáš	
Classification and Denoising of Cosmic-Ray Radio Signals using Deep Learning	REHMAN, Abdul	
TAROGÉ experiment and reconstruction technique for near-horizon impulsive radio signals induced by Ultra-high energy cosmic rays	CHEN, Yaocheng	
Simulation and Optimisation for the Radar Echo Telescope for Cosmic Rays	STANLEY, Rose	
Performance of SKA as an air shower observatory	BUITINK, Stijn	
Expected performance of interferometric air-shower measurements with radio antennas	SCHLÜTER, Felix	
Simulation Study of the Observed Radio Emission of Air Showers by the IceTop Surface Extension	COLEMAN, Alan	

Simulations of radio emission from air showers with CORSIKA 8	KARASTATHIS, Nikolaos	
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Discussion: 42 Direct Dark Matter: Present and Future | DM (6:00 PM-7:30 PM)

title	presenter	board
DARWIN – a next-generation liquid xenon observatory for dark matter and neutrino physics	THIEME, Kevin	
The DEAP-3600 experiment	STRINGER, Mark	
Simulations and background estimates for the DAMIC-M experiment	DE DOMINICIS , Claudia	
DIMS Experiment for Dark Matter and Interstellar Meteoroid Study	KAJINO, Fumiyoshi	
Sub-GeV dark matter and neutrino searches with Skipper-CCDs: status and prospects.	BOTTI, Ana Martina	
Results on low-mass weakly interacting massive particles from a 11 kg d target exposure of DAMIC at SNOLAB	TRAINA, Michelangelo	
Neutrinoless double beta decay search with XENON1T and XENONnT	PIERRE, Maxime	
Probing sterile neutrinos and axion-like particles from the Galactic halo with eROSITA	DEKKER, Ariane	

Discussion: 05 CR Mass composition | CRI (6:00 PM-7:30 PM)

title	presenter	board
Mass composition anisotropy with the TA SD data	ZHEZHER, Yana	
Cosmic-ray mass composition with the TA SD 12-year data	ZHEZHER, Yana	
Fluctuations of the Xmax in Air Showers within 10 PeV-1 EeV Primary Energy Range	MOKHNACHEVSKAYA, Valentina	
The measurements of the cosmic ray energy spectrum and the depth of maximum shower development of Telescope Array Hybrid trigger events	SHIN, Heungsu	
Combined fit of the energy spectrum and mass composition across the ankle with the data measured at the Pierre Auger Observatory	GUIDO, Eleonora	
Results from the KASCADE-Grande data analysis	KANG, Donghwa	
New insights from old cosmic rays: A novel analysis of archival KASCADE data	KOSTIUNIN, Dmitriy	
Recent measurements of the cosmic ray energy spectrum and composition from the GRAPES-3 experiment	VARSİ, Fahim	
The depth of the shower maximum of air showers measured with AERA	PONT, Bjarni	
HAWC measurements of the energy spectra of cosmic ray protons, helium and heavy nuclei in the TeV range	ARTEAGA VELAZQUEZ, Juan Carlos	
Cosmic Ray Composition in the Second Knee Region as Measured by the TALE Hybrid Detector	FUJITA, Keitaro	
Cosmic Ray Composition between 2 PeV and 2 EeV measured by the TALE Fluorescence Detector	ABUZAYYAD, Tareq	
Telescope Array Combined Fit to Cosmic Ray Spectrum and Composition	BERGMAN, Douglas	
Cosmic-Ray Studies with the Surface Instrumentation of IceCube	HAUNGS, Andreas	
Results on mass composition of cosmic rays as measured with LOFAR	CORSTANJE, Arthur	

Indication of a mass-dependent anisotropy above $10^{18.7}$ eV in the hybrid data of the Pierre Auger Observatory	MAYOTTE, Eric	
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Discussion: 48 Modelling AGN's spectral energy distribution | GAD-GAI-MM (6:00 PM-7:30 PM)

title	presenter	board
Gamma Rays from Fast Black-Hole Winds	KARWIN, Chris	
Gamma-ray emission from young radio galaxies and quasars	PRINCIPE, Giacomo	
A two-zone emission model for Blazars and the role of Accretion Disk MHD winds	BOULA, Stella	
Building a robust sample of Fermi-LAT blazars that exhibit periodic gamma-ray emission	PEÑIL, Pablo	
VHE gamma-ray spectral hint of two-zone emitting region in Mrk 501	BECERRA GONZÁLEZ, Josefa	
Multiwavelength observations in 2019-2020 of a new very-high-energy gamma-ray emitter: the flat spectrum radio quasar QSO B1420+326	D'AMMANDO, Filippo	
Gamma-ray signatures from pair cascades in recombination-line radiation fields	WENDEL, Christoph	
Extreme blazars under the eyes of MAGIC	ARBET-ENGELS, Axel	
The luminosity function of TeV-emitting BL Lacs: observations of an HBL sample with VERITAS	ERRANDO, Manel	
Modeling the non-flaring VHE emission from M87 as detected by the HAWC gamma ray observatory	UREÑA MENA, Fernando	
TeV emission from FSRQs: The first systematic and unbiased survey	PATEL, Sonal Ramesh	
Detection of new Extreme BL Lac objects with H.E.S.S. and SWIFT	NOEL, Angel Priyana	
MAGIC and H.E.S.S. detect VHE gamma rays from the blazar OT081 for the first time: a deep multiwavelength study	MANGANARO, Marina	
Explaining the TeV detection of blazar AP Librae: constraints from ALMA and HST	ROYCHOWDHURY, Agniva	
Exploring the High-Energy Gamma-Ray Spectra of TeV Blazars	FENG, Qi	
Discovery of TXS 1515-273 at VHE gamma-rays and modelling of its Spectral Energy Distribution	LOPORCHIO, Serena	

Discussion: 33 Photodetection in Cherenkov Detectors | NU (6:00 PM-7:30 PM)

title	presenter	board
The Wavelength-shifting Optical Module (WOM) for the IceCube Upgrade	RACK-HELLEIS, John	
Performance studies for a next-generation optical sensor for IceCube-Gen2	SHIMIZU, Nobuhiro	
Performance of the D-Egg optical sensor for the IceCube-Upgrade	HILL, Colton	
Design of an Efficient, High-Throughput Photomultiplier Tube Testing Facility for the IceCube Upgrade	HALVE, Lasse	
Evaluation of large area photomultipliers for use in a new Baksan Large Neutrino Telescope project	USHAKOV, Nikita	
Large area photodetectors in photon detection for large-scale neutrino physics experiments: single large area PMTs and multi small PMTs approaches.	LUBSANDORZHIEV, Sultim	

Enhanced photon detection efficiency for next-generation neutrino telescopes using photon traps	CHOI, Koun	
P-ONE second pathfinder mission: STRAW-b	REA, Immacolata Carmen	
Design and performance of the multi-PMT optical module for IceCube Upgrade	CLASSEN, Lew	
Time synchronization of Baikal-GVD clusters	AYNUTDINOV, Vladimir	
Experimental string with fiber optic data acquisition for Baikal-GVD	AYNUTDINOV, Vladimir	
A next-generation optical sensor for IceCube-Gen2	BASU, Vedant	
Data Quality Monitoring system of the Baikal-GVD experiment	SOROKOVIKOV, Maksim	
Light concentrators for large-volume detector at the Baksan Neutrino Observatory	FAZLIAKHMETOV, Almaz	
Exploring a PMT+SiPM hybrid optical module for next generation neutrino telescopes	HU, Fan	

Wednesday 14 July 2021

Discussion: 04 CR Energy Spectrum | CRI (12:00 PM-1:30 PM)

title	presenter	board
The Results of 5 Years Study of Cosmic Rays Above 10 PeV with Differential Cherenkov Detectors	MOKHNACHEVSKAYA, Valentina	
Energy spectrum of cosmic rays measured using the Pierre Auger Observatory	NOVOTNÝ, Vladimír	
Energy spectrum and the shower maxima of cosmic rays above the knee region measured with the NICHE detectors at the TA site	OMURA, Yugo	
The all-particle cosmic ray energy spectrum measured with HAWC	MORALES-SOTO, Jorge Antonio	
Protons Spectrum from MAGIC Telescopes data	TEMNIKOV, Petar	
Joint analysis of the energy spectrum of ultra-high-energy cosmic rays as measured at the Pierre Auger Observatory and the Telescope Array	TSUNESADA, Yoshiki	
TA Monocular Spectrum Measurement	BERGMAN, Douglas	
Preliminary Cosmic Ray Results from the HAWC's Eye Telescopes	REHBEIN, Florian	
The Energy Spectrum of Cosmic Ray Proton and Helium above 100TeV Measured by LHAASO Experiment	YOU, Zhiyong	
Study of Energy Measurement of Cosmic Ray Nuclei with LHAASO	LIU, hu	
Cosmic ray energy spectrum in the 2nd knee region measured by the TALE-SD array	SATO, Koki	
Cosmic Ray Energy Spectrum measured by the TALE Fluorescence Detector	ABUZAYYAD, Tareq	
Recent measurement of the Telescope Array energy spectrum and observation of the shoulder feature in the Northern Hemisphere	IVANOV, Dmitri	

Discussion: 20 GCR long-term modulation | SH (12:00 PM-1:30 PM)

title	presenter	board
Combined heliospheric modulation of galactic protons and helium nuclei from solar minimum to maximum activity related to observations by PAMELA.	NGOBENI, Donald	
Spectral parameterization of GCR observations and reconstruction of solar modulation parameters derived from the Convection-Diffusion approximation	MOSOTHO, Moshe Godfrey	
Solar Modulation During the Descending Phase of Solar Cycle 24 Observed with CALET on the International Space Station	MIYAKE, Shoko	
On the transition from 3D to 2D transport equations for a study of long-term cosmic-ray intensity variations in the heliosphere	KRAINEV, Mikhail	
Galactic cosmic-ray hydrogen spectra in the 40-300MeV range measured by the High-energy Particle Detector (HEPD) on board the CSES-01 satellite during the current solar minimum	MARTUCCI, Matteo	
A simulation study of galactic proton modulation from solar minimum to maximum conditions	NDIITWANI, Dzivhuluwani	
Galactic Cosmic-Ray Intensities During three Solar Minima	MEWALDT, Richard	
Study Galactic Cosmic Ray Modulation with AMS-02 observation	SONG, xiaojian	

A full solar cycle of proton and helium measurements	MARCELLI, Nadir	
SOLAR MODULATION OF GALACTIC-COSMIC RAY ANTIPROTONS	MUNINI, Riccardo	

Discussion: 34 Radio Detection of Neutrinos | NU (12:00 PM-1:30 PM)

title	presenter	board
Sensitivity of a radio array embedded in a deep Gen2-like optical array.	BISHOP, Abby	
Implementing a Low-Threshold Analysis with the Askaryan Radio Array (ARA)	HUGHES, Kaeli	
Hardware Development for the Radio Neutrino Observatory in Greenland (RNO-G)	SMITH, Daniel	
Improving Radio Frequency Detectors using High Performance Programmable Logic Devices	XIE, Cheng	
Effects of raytracing on neutrino simulations using RadioPropa	OEYEN, Bob	
Broadband RF Phased Array Design for UHE neutrino detection	HANSON, Jordan	
An improved trigger for Askaryan radio detectors	GLASER, Christian	
Neutrino direction and flavor-id reconstruction from radio detector data using deep learning	STJÄRNHOLM, Sigfrid	
The Calibration of the Geometry and Antenna Delay in Askaryan Radio Array Station 4 and 5	DASGUPTA, Paramita	
Evolving Antennas for Ultra-High Energy Neutrino Detection	ROLLA, Julie	
Discovering the Highest Energy Neutrinos with the Payload for Ultrahigh Energy Observations (PUEO)	VIEREGG, Abigail	
Direction reconstruction for the Radio Neutrino Observatory Greenland	PLAISIER, Ilse	
The Giant Radio Array for Neutrino Detection (GRAND) project	KOTERA, Kumiko	
Sensitivity studies for the IceCube-Gen2 radio array	HALLMANN, Steffen	
Polarization Reconstruction of Cosmic Rays with the ARIANNA Neutrino Radio Detector	ZHAO, Leshan	
Science case and detector concept for ARIANNA high energy neutrino telescope at Moore's Bay, Antarctica	BARWICK, Steven	
Application of parabolic equation methods to in-ice radiowave propagation for ultra high energy neutrino detection experiments	SBROCCO, Cade	
Capabilities of the ARIANNA Neutrino Pointing Resolution, with Implications for Future Ultra-high Energy Neutrino Astronomy	BARWICK, Steven	
A Template-based UHE Neutrinos Search with the Askaryan Radio Array (ARA)	KIM, Myoungchul	
A novel trigger based on neural networks for radio neutrino detectors	ANKER, Astrid	
Deep learning reconstruction of the neutrino energy with a shallow Askaryan detector	GLASER, Christian	

Discussion: 55 Ultra-High-Energy Gamma-Ray Sources and PeVatrons | GAI (12:00 PM-1:30 PM)

title	presenter	board
Discovery of 100 TeV gamma-rays from HESS J1702-420: a new PeVatron candidate	GIUNTI, Luca	

Resolving the origin of very-high-energy gamma-ray emission from the PeVatron candidate SNR G106.3+2.7 using MAGIC telescopes	OKA, Tomohiko	
Predictions for gamma-rays from clouds associated with supernova remnant PeVatrons	MITCHELL, Alison	
Carpet-2 observation of E>300 TeV photons accompanying a 150-TeV neutrino from the Cygnus Cocoon	ROMANENKO, Viktor	
HAWC J2227+610: a potential PeVatron candidate for the CTA in the northern hemisphere	VERNA, Gaia	
Gamma-ray Observation of SNR G106.3+2.7 with the Tibet Air Shower Array	OHNISHI, Munehiro	

Break (1:30 PM-2:00 PM)**Plenary: Review 02 (2:00 PM-3:30 PM)**

-Conveners: Manfred Lindner

time	title	presenter
2:00 PM	Dark Matter: Knowns and Unknowns	SLATYER, Tracy
2:45 PM	Probing particle acceleration through gamma-ray Solar flare observations	PESCE-ROLLINS, Melissa

Break (3:30 PM-4:00 PM)**Plenary: Highlight 03 (4:00 PM-5:30 PM)**

-Conveners: Markus Roth

time	title	presenter
4:00 PM	Highlights from direct dark matter detection	SCHUMANN, Marc
4:30 PM	Highlights from the Telescope Array experiment	RUBTSOV, Grigory
5:00 PM	Highlights from the Pierre Auger Observatory	ENGEL, Ralph

Break (5:30 PM-6:00 PM)**Discussion: 17 Nuclear CR spectra: theory and observations | CRD (6:00 PM-7:30 PM)**

title	presenter	board
Energy spectra of carbon and oxygen cosmic rays with CALET on the International Space Station	MAESTRO, paolo	
Analysis Result of the High-Energy Cosmic-Ray Proton Spectrum from the ISS-CREAM Experiment	CHOI, Gwangho	
Results from the Cosmic Ray Energetics And Mass for the International Space Station (ISS-CREAM) experiment	SEO, Eun-Suk	
Cosmic-ray Heavy Nuclei Spectra Using the ISS-CREAM Instrument	KANG, Sinchul	
Extended measurement of the proton spectrum with CALET on the International Space Station	KOBAYASHI, Kazuyoshi	
Measurement of the energy spectrum of cosmic-ray helium with CALET on the International Space Station	BROGI, Paolo	
Analysis Results from the Cosmic Ray Energetics And Mass Instrument for the International Space Station (ISS-CREAM)	NUTTER, Scott	

Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer	CHEN, Yao	
Measurement of carbon and oxygen fluxes in cosmic rays with the DAMPE experiment	WU, Libo	
Measurement of the light component (p+He) energy spectrum with the DAMPE space mission	ALEMANNI, Francesca	
Direct Measurement of the Cosmic-Ray Iron Spectrum with the Dark Matter Particle Explorer	XU, ZhiHui	
Cosmic Ray Helium spectrum measured by the DAMPE experiment	DI SANTO, Margherita	
Properties of Cosmic Aluminum Nuclei: Results from the Alpha Magnetic Spectrometer	LIU, Zhen	
Measurement of the iron spectrum with CALET on the International Space Station	STOLZI, Francesco	
Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer	OLIVA, Alberto	
Properties of Cosmic Sodium : Results from the Alpha Magnetic Spectrometer	ZHANG, cheng	

Discussion: 21 Short-term modulation | SH (6:00 PM-7:30 PM)

title	presenter	board
Behaviour of different periodicities in galactic cosmic particles as observed by ACE during solar cycles 23 and 24	KOTZE, Pieter	
Forbush decrease on September 6-13, 2017 observed by the Tanca water-Cherenkov detector	DE AGUIAR, Renan	
Periodic variations of GCR intensity and anisotropy related to solar rotation by ACE/CRIS, STEREO, SOHO/EPHIN and neutron monitors observations	MODZELEWSKA, Renata	
Time-Delay Measurements from Antarctic Neutron Monitor Stations Indicate Weak Spectral Changes during 27-day Variations	MUANGHA, Pradiphat	
Effects of the Magnetic Cloud and Sheath on the Solar Energetic Particles and Forbush Decrease associated with the Ground-level Enhancement Event of 2000 July 14	WU, S.-S.	
Numerical Study the Corotating Interaction Region's effect on cosmic proton and helium	LUO, xi	
Precision Measurement of Periodicities in the Daily Proton Fluxes with the Alpha Magnetic Spectrometer	JIA, Yi	
Access of cosmic rays to an ICME from external field lines	LAITINEN, Timo	
Periodicities Observed in Neutron Monitor Counting Rates Throughout Solar Cycles 20-24	LÓPEZ COMAZZI, Alejandro	

Discussion: 03 Muon Puzzle and EAS modeling | CRI (6:00 PM-7:30 PM)

title	presenter	board
Estimation of depth of maximum by relative muon content in air showers with energy greater than 5 EeV measured by the Yakutsk array	PETROV, Igor	

A simulation study for one-pion exchange contribution on very forward neutron productions in ATLAS-LHCf common events	OHASHI, Ken	
Measurement of the Proton-Air Cross Section with Telescope Ar-rays Black Rock, Long Ridge, and Surface Array in Hybrid Mode.	ABBASI, Rasha	
Status and Prospects of the LHCf and RHICf experiments	MENJO, Hiroaki	
Collective flow in ultra high energy cosmic rays within CORSIKA	NIE, Maowu	
Muon number rescaling in simulations of air showers	GORA, Dariusz	
Data-driven Scales of Depth of Shower Maximum and Signals at Ground Level using Hybrid Detection at the Pierre Auger Observatory	VÍCHA, Jakub	
Air shower genealogy for muon production	REININGHAUS, Maximilian	
LHCf plan for proton-oxygen collisions at LHC	BERTI, Eugenio	
Modified Characteristics of Hadronic Interactions	BLAZEK, Jiri	
Very-forward neutral pion production cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV measured with the LHCf experiment	TIBERIO, Alessio	
Sub-TeV hadronic interaction model differences and their impact on air-showers	PASTOR GUTIÉRREZ, Álvaro	
What if new physics sets in above 50 TeV? Cosmic-ray air-shower simulations with increased cross-section and multiplicity.	ROMANOPOULOS, Stelios	
Measurements of the average muon energy in inclined muon bundles in the NEVOD-DECOR experiment	YURINA, E.A.	
Muon excess in ultra-high energy inclined EAS according to the NEVOD-DECOR data	KOKOULIN, R.P.	
Study on the combined estimate of the cosmic-ray composition and particle cross-sections at ultrahigh energies	TKACHENKO, Olena	
Estimations of the muon content of cosmic ray air showers between 10 PeV and 1 EeV from KASCADE-Grande data	ARTEAGA VELAZQUEZ, Juan Carlos	
Measurements of the charge ratio and polarization of cosmic ray muons with the Super-Kamiokande detector	KITAGAWA, Hussain	
Testing Hadronic Interaction Models with Cosmic Ray Measurements at the IceCube Neutrino Observatory	VERPOEST, Stef	
Hadron cascades in CORSIKA 8	ULRICH, Ralf	
Measurement of muon contents in cosmic ray shower with LHAASO-KM2A around knee region	ZHANG, Hengying	
On the muon scale of air showers and its application to the AGASA data	GESUALDI, Flavia	
Update on the Combined Analysis of Muon Measurements from Nine Air Shower Experiments	SOLDIN, Dennis	
Density of GeV Muons Measured with IceTop	SOLDIN, Dennis	
Muon deficit in simulations of air showers inferred from AGASA data	GESUALDI, Flavia	
When heavy ions meet cosmic rays: potential impact of QGP formation on the muon puzzle	PIEROG, Tanguy	

Discussion: 47 The central engines of fast transients: Gamma-Ray Bursts and Fast Radio Bursts | GAD-GAI-MM (6:00 PM-7:30 PM)

title	presenter	board
Gamma-ray burst precursors as observed by Fermi-GBM	COPPIN, Paul	
Gamma-Ray Polarization Results of the POLAR Mission and Future Prospects	KOLE, Merlin	
Search of Gamma Ray Burst detected by GBM alike to GRB170817A	SACAHUI, Rodrigo	
Magnetar giant flare in NGC 253 seen by Fermi-GBM	BISSALDI, Elisabetta	
High-energy and very high-energy gamma-ray emission from the magnetar SGR 1900+14 outskirts	VOITSEKHOVSKYI, Vadym	
Hunting the gamma-ray emission from Fast Radio Burst with Fermi-LAT	PRINCIPE, Giacomo	
A theoretical model of an off-axis GRB jet	BETANCOURT KAMENETSKAIA, Boris	
Observation of burst activity from SGR1935+2154 associated to first galactic FRB with H.E.S.S.	KOSTIUNIN, Dmitriy	
Gamma-ray and Optical Observations of Repeating Fast Radio Bursts with VERITAS	LUNDY, Matthew	
Prospects for Galactic transient sources detection with the Cherenkov Telescope Array	LÓPEZ-ORAMAS, Alicia	
Monitoring the magnetar SGR 1935+2154 with the MAGIC telescopes	LÓPEZ-ORAMAS, Alicia	
An expanding hadronic supercritical model for gamma-ray burst emission	FLOROU, Ioulia	
A Fast GRB Source Localization Pipeline for the Advanced Particle-Astrophysics Telescope	SUDVARG, Marion	
Detection of the third class of gamma-ray bursts: magnetar giant flares.	NEGRO, Michela	

Discussion: 35 Upgoing Tau Neutrinos: Present and Future | NU (6:00 PM-7:30 PM)

title	presenter	board
The Prospects to observe UHE neutrinos from astrophysical sources with Trinity	WANG, Andrew	
Trinity: an imaging air Cherenkov telescope to search for Ultra-High-Energy neutrinos.	BROWN, Anthony	
Radio Simulations of Upgoing Extensive Air Showers Observed from Low-Earth Orbit	ROMERO-WOLF, Andres	
Horizontal muon track identification with neural networks in HAWC	ANGELES CAMACHO, José Roberto	
Monte Carlo simulations of neutrino and charged lepton propagation in the Earth with nuPyProp	PATEL, Sameer	
Searching for RF-Only Triggered Cosmic Ray Events with the High-Elevation BEACON Prototype	SOUTHALL, Daniel	
IceCube Search for Earth-traversing ultra-high energy Neutrinos	SAFA, Ibrahim	
An analysis of a tau-neutrino origin for the atypical ANITA-IV cosmic-ray-like events	PRECHELT, Remy	
TauRunner: A Monte Carlo for Very-High-Energy Tau Neutrino Propagation	VAZQUEZ, Oswaldo	
EAS Optical Cherenkov signatures of tau neutrinos for space and suborbital detectors	RENO, Mary Hall	

A tau scenario application to a search for upward-going showers with the Fluorescence Detector of the Pierre Auger Observatory	CARACAS, Ioana Alexandra	
nuSpaceSim: A Comprehensive Simulation for the Modeling of Optical and Radio Signals from Extensive Air Showers Induced by Cosmic Neutrinos for Space-based Experiments	KRIZMANIC, John	
Neutrino signals by Upward Tau airshowering at Earth horizons and by Muon airshowering at Moon shadows	FARGION, Daniele	
Search for upward-going showers with the Fluorescence Detector of the Pierre Auger Observatory	MASTRODICASA, Massimo	
Overview of Cherenkov Telescope onboard EUSO-SPB2 for the Detection of Ultra-High Energy Neutrinos	BAGHERI, Mahdi	

Thursday 15 July 2021

Discussion: 06 CR Anisotropies | CRI (12:00 PM-1:30 PM)

title	presenter	board
LOCAL TURBULENCE AND THE DIPOLE ANISOTROPY OF GALACTIC COSMIC RAYS	GÉNOLINI, Yoann	
Cosmic Ray Small-Scale Anisotropies in Slab Turbulence	KUHLEN, Marco	
Anisotropy of Protons and Light Primary Nuclei in Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS	VELASCO, Miguel Angel	
Update on the large-scale cosmic-ray anisotropy search at the highest energies by the Telescope Array Experiment	FUJII, Toshihiro	
Simulations of the cosmic-ray anisotropy down to TeV energies	GIACINTI, Gwenael	
The ultra-high-energy cosmic-ray sky above 32 EeV viewed from the Pierre Auger Observatory	BITEAU, Jonathan	
UHECR arrival directions in the latest data from the original Auger and TA surface detectors and nearby galaxies	DI MATTEO, Armando	
The Imprint of Large Scale Structure on the Ultra-High-Energy Cosmic Ray Sky	DING, Chen	
The origin of UHECR: the distance to the nearest source and the dipole	LANG, Rodrigo Guedes	
Large-scale cosmic ray anisotropy measured by the GRAPES-3 experiment	CHAKRABORTY, Medha	
TA anisotropy summary	TKACHEV, Igor	
Harmonic correlators for UHECRs	URBAN, Federico	
The UHECR dipole and quadrupole in the latest data from the original Auger and TA surface detectors	TINYAKOV, Peter	
Effects of Galactic magnetic field on the UHECR anisotropy studies	HIGUCHI, Ryo	
Observation of large-scale anisotropy in the arrival directions of cosmic rays with LHAASO	GAO, Wei	
Anisotropy search in the Ultra High Energy Cosmic Ray Spectrum in the Northern Hemisphere using latest data obtained with Telescope Array surface detector	NONAKA, Toshiyuki	
Large-scale and multipolar anisotropies of cosmic rays detected at the Pierre Auger Observatory with energies above 4 EeV	DE ALMEIDA, Rogerio	
Hotspot Update, and a new Excess of Events on the Sky Seen by the Telescope Array Experiment	KIM, Jihyun	
Observation of Cosmic Ray Anisotropy with Nine Years of IceCube Data	MCNALLY, Frank	

Discussion: 22 Atmospheric effects of CR | SH (12:00 PM-1:30 PM)

title	presenter	board
The altitude profile of the cosmic ray atmospheric cutoff	POLUIANOV, Stepan	
Stellar versus Galactic: The intensity of energetic particles at the evolving Earth and young exoplanets	RODGERS-LEE, Donna	
Strongest directly observed Solar Proton Event of 23-Feb-1956: Revised reference for the cosmogenic-isotope method	USOSKIN, Ilya	

Simulation of Solar Neutron Flux in the Earth's Atmosphere	MONTERDE ANDRADE, Fernando	
A study on the cosmic ray intensity variation using scintillation counters for air shower observation.	NONAKA, Toshiyuki	
The asymptotic directions of approach and the magnetic rigidity cutoff of cosmic ray particles calculated for different airports	SIŁUSZYK, Marek	
New empirical methods for correction of meteorological effects on cosmic ray muons	SAVIC, Mihailo	
Transparency of magnetosphere for cosmic rays in last two millennia	GECÁŠEK, Daniel	
Analyses of the Secondary Cosmic Ray using CCD camera in high-altitude observatories and Antarctica stations	HUBERT, guillaume	

Discussion: 14 CRs and ISM | CRD (12:00 PM-1:30 PM)

title	presenter	board
CR transport and feedback in galaxies	THOMAS, Timon	
Empirical assessment of cosmic ray propagation in magnetised molecular cloud complexes	OWEN, Ellis	
The low rate of supernova remnant pevatrons	CRISTOFARI, Pierre	
Powerful Diagnostics of Cosmic-Ray Modified Shock by Hα Polarimetry	SHIMODA, Jiro	
Studying the low-energy excess in cosmic-ray iron: a possible evidence of a massive supernova activity in the solar neighborhood via primary 60Fe	MASI, Nicolo	
Tracing the origin of low diffusivity and CR bubbles around sources	SCHROER, Benedikt	
Damping of self generated Alfvén waves in a partially ionized medium and the grammage of cosmic rays in the proximity of supernova remnants	RECCHIA, Sarah	
A New Cosmic-Ray-driven Instability	SHALABY, Mohamad	
Cosmic ray feedback across the sequence of star-forming galaxies	CROCKER, Roland	
Spectrally resolved cosmic rays in galaxy simulations	GIRICHIDIS, Philipp	
Cosmic Ray Transport, Energy Loss, and Influence in the Multiphase Interstellar Medium	BUSTARD, Chad	
Turbulent Reacceleration of Streaming Cosmic Rays: Fluid Simulations	BUSTARD, Chad	

Discussion: 49 Studying the variable emission from AGN in a multi-wavelength context | GAD-GAI-MM (12:00 PM-1:30 PM)

title	presenter	board
The detectability of fast gamma-ray blazar flares from magnetic reconnection with the Fermi Large Area Telescope	PETROPOULOU, Maria	
BlaVar: A numerical study of long-term multi-wavelength blazar variability	POLKAS, Markos	
Recent Results from VERITAS AGN Observations	BENBOW, Wystan	
Relentless multi-wavelength variability of Markarian 421 and Markarian 501	VITALII, Sliusar	
Is PKS 0625-354 another variable TeV active galactic nucleus?	GLAWION, Dorit	
The variability patterns of PG 1553+113: a MAGIC perspective	PRANDINI, Elisa	

Multiwavelength monitoring of gravitationally lensed blazar QSO B0218+357 between 2016 and 2020	SITAREK, Julian	
Multi-epoch monitoring of TXS 0506+056 with MAGIC and MWL partners	SATALECKA, Konstancja	
Multi-wavelength study of Mrk 421 during a TeV outburst	GOKUS, Andrea	
Confronting observations of VHE gamma-ray blazar flares with reconnection models	JORMANAINEN, Jenni	
HAWC observations of Active Galactic Nuclei	CARRAMIÑANA, Alberto	
FACT - Highlights from more than Eight Years of Unbiased TeV Monitoring	DORNER, Daniela	
Multi-messenger characterization of Mrk501 during historically low X-ray and gamma-ray activity	HECKMANN, Lea	

Break (1:30 PM-2:00 PM)**Plenary: Review 03 (2:00 PM-3:30 PM)**

-Conveners: Ralph Engel

time	title	presenter
2:00 PM	Underwater Neutrino telescopes: status and future	COYLE, Paschal
2:45 PM	The Muon Puzzle in air showers and its connection to the LHC	DEMBINSKI, Hans

Break (3:30 PM-4:00 PM)**Plenary: Highlight 04 (4:00 PM-5:30 PM)**

-Conveners: Sara Buson

time	title	presenter
4:00 PM	Future Missions for MeV Gamma-Ray Astrophysics	ZOGLAUER, Andreas
4:30 PM	Highlights from gamma-ray observation by the Tibet ASgamma experiment.	TAKITA, Masato
5:00 PM	Space weather: Earth, neighboring planets and exoplanets	CROSBY, Norma

Break (5:30 PM-6:00 PM)**Discussion: 16 Cosmic Ray Antiparticles and Electrons | CRD-DM-GAD-MM (6:00 PM-7:30 PM)**

title	presenter	board
In Search of Cosmic-Ray Antinuclei from Dark Matter with the GAPS Experiment	XIAO, Mengjiao	
New cosmic ray MIN-MED-MAX benchmark models for dark matter indirect signatures	SALATI, PIERRE	
Dark matter or correlated errors? Systematics of the AMS-02 antiproton excess	JAN, Heisig	
Explaining cosmic ray antimatter with secondaries from old supernova remnants	MERTSCH, Philipp	
Constraining positron emission from pulsars with AMS-02 data	ORUSA, Luca	
On the interpretation of the latest AMS-02 cosmic ray electron spectrum	DONATO, Fiorenza	
Precise Measurement of the Cosmic-Ray Electron and Positron Spectrum with CALET on the International Space Station	TORII, Shoji	

TeV Halos: A New Class of TeV Sources Powered by Pulsars	LINDEN, Tim	
Compact binary millisecond pulsars and the positron excess	LINARES, Manuel	
New result of Antideuteron search in BESS-Polar II	SAKAI, Kenichi	
Towards Understanding the Origin of Cosmic-Ray Positrons	WENG, Zhili	
Anisotropy of Positron and Electron Fluxes Measured with the Alpha Magnetic Spectrometer on the ISS	MOLERO GONZALEZ, Miguel	
Antiproton Flux and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the ISS	CHOU, Hsin-Yi	
A local fading accelerator and the origin of TeV cosmic ray electrons	RECCHIA, Sarah	
Towards Understanding the Origin of Cosmic-Ray Electrons	KRASNOPEVTSEV, Dimitrii	

Discussion: 23 Solar Events observed on/near Earth | SH (6:00 PM-7:30 PM)

title	presenter	board
Solar Neutron Decay Protons Observed in November 7, 2004	MURAKI, Yasushi	
New reconstruction of the event-integrated spectra for GLE events	KOLDOBSKIY, Sergey	
The 23 July 2012 SEP event numerical simulation with multi-spacecraft observation data	QI, Shiyang	
Solar Energetic Particles measured by the Alpha Magnetic Spectrometer during solar cycle 24	CHRISTOPHER, Light	
Simulating the transport of high energy solar protons during historic GLE events	WATERFALL, Charlotte	
Can the number of relativistic solar proton 1 AU crossings be determined from neutron monitor data?	DALLA, Silvia	

Discussion: 07 Where to go in UHECR observations | CRI (6:00 PM-7:30 PM)

title	presenter	board
Science and mission status of EUSO-SPB2	ESER, Johannes	
Cosmic ray studies with SWGO	TAYLOR, Andrew	
Current status and prospects of surface detector of the TAx4 experiment	KIDO, Eiji	
An overview of the JEM-EUSO program and results	BERTAINA, Mario Edoardo	
The Fluorescence Telescope on board EUSO-SPB2 for the detection of Ultra High Energy Cosmic Rays	OSTERIA, Giuseppe	
The Surface Array planned for IceCube-Gen2	SCHRÖDER, Frank	
Progress and future prospect of the CRAFTT project for the next generation UHECR observation	TAMEDA, Yuichiro	
Prospects for Cross-correlations of UHECR Events with Astrophysical Sources with Upcoming Space-based Experiments	VENTERS, Tonia	
GCOS - The Global Cosmic Ray Observatory	HÖRANDEL, Jörg	
The status of the TALE surface detector array and a TALE infill project	OGIO, Shoichi	
Particle detector development for the Square Kilometre Array	BRAY, Justin	

The upgrade of the Pierre Auger Observatory with the Scintillator Surface Detector.	CATALDI, Gabriella	
Detection of Above the Limb Cosmic Rays in the Optical Cherenkov Regime Using Sub-Orbital and Orbital Instruments	CUMMINGS, Austin	
The Mini-EUSO telescope on board the International Space Station: Launch and first results	CASOLINO, Marco	
Update on the TAx4 Fluorescence Detectors	POTTS, Mathew	
Status and performance of the underground muon detector of the Pierre Auger Observatory	BOTTI, Ana Martina	
Performance of the 433 m surface array of the Pierre Auger Observatory	SILLI, Gaia	
Main results of the TUS experiment on board the Lomonosov satellite	KLIMOV, Pavel	
First air-shower measurements with the prototype station of the IceCube surface enhancement	DUJMOVIC, Hrvoje	

Discussion: 44 The Origins of Galactic Cosmic Rays | GAD-GAI-CRD (6:00 PM-7:30 PM)

title	presenter	board
Search for new cosmic-ray acceleration sites within the 4FGL catalog sources	LEMOINE-GOUMARD, Marianne	
Star-forming regions as potential contributors to Galactic cosmic rays: the case of NGC 3603	SAHA, Lab	
Investigating gamma-ray emission of the Cygnus cocoon with 12 years of Fermi-LAT data	ASTIASARAIN, Xan	
Probing the hadronic nature of the gamma-ray emission associated with Westerlund 2	DE ONA WILHELMI, Emma Maria	
Cosmic ray acceleration and gamma-ray emission from protostellar jets	ARAUDO, Anabella	
The cosmic ray content of superbubbles	VIEU, Thibault	
The Origin of Galactic Cosmic Rays as Revealed by their Composition	TATISCHEFF, Vincent	
Detection of emission from Cygnus Cocoon above 100TeV with LHAASO	CONG, Li	
Particle Acceleration in the Cygnus Superbubble	HONA, Binita	
SuperTIGER Abundances of Galactic Cosmic Rays for the Atomic Number (Z) Interval 30 to 56	WALSH, Nathan	
Probing cosmic-ray distribution around Cygnus OB2	MENCHIARI, Stefano	
The young massive stellar cluster Westerlund 1 in gamma rays as seen with H.E.S.S.	MOHRMANN, Lars	
How well do we understand the properties of the Galactic cosmic ray accelerators and of cosmic ray propagation in the Galaxy ? A critical view.	LIPARI, Paolo	
Cosmic rays in the GeV-TeV energy range from two types of supernovae	THOUDAM, Satyendra	

Discussion: 37 Reconstruction & Analysis Techniques | NU (6:00 PM-7:30 PM)

title	presenter	board
A Time-Variability Test for Candidate Neutrino Sources	DAVE, Pranav	

Reconstruction of Neutrino Events in IceCube using Graph Neural Networks	HA MINH, Martin	
Combining Maximum-Likelihood with Deep Learning for Event Reconstruction in IceCube	HÜNNEFELD, Mirco	
A neural network based UHE neutrino reconstruction method for the Askaryan Radio Array (ARA)	PAN, Yue	
Performance of a machine learning algorithm for predicting muon multiplicity	MURGOD, Lakshmi	
Reconstructing Neutrino Energy using CNNs for GeV Scale IceCube Events	MICALLEF, Jessie	
Neutrino Direction Reconstruction using a CNN for GeV-Scale Neutrinos in IceCube	YU, Shiqi	
The SkyLLH framework for IceCube point-source search	KONTRIMAS, Tomas	
Performance of the muon track reconstruction with the Baikal-GVD neutrino telescope	SAFRONOV, Grigory	
An efficient hit finding algorithm for Baikal-GVD muon reconstruction	SHAYBONOV, Bair	
Testing the Pointing of IceCube Using the Moon Shadow in Cosmic-Ray-Induced Muons	PHILIPPEN, Saskia	
Muon bundle reconstruction with KM3NeT/ORCA using graph convolutional networks	RECK, Stefan	
Automatic data processing for Baikal-GVD neutrino observatory	SHAYBONOV, Bair	
Statistical uncertainty derivation in probabilistic classification with DSEA+	KARDUM, Leonora	
CNN-based event filtering in the ICARUS T600 detector using PMT	BABICZ, Marta	
Analysis framework for multi-messenger astronomy with IceCube	FAN, Kwok Lung	
High-energy reconstruction for showers and tau neutrinos using the KM3NeT detector	VAN EEDEN, Thijs	

Friday 16 July 2021

Discussion: 12 Galactic Particle Acceleration, including PIC | CRI-CRD-MM (12:00 PM-1:30 PM)

title	presenter	board
Time-dependent treatment of cosmic-ray spectral steepening due to turbulence driving	POHL, Martin	
PARTICLE ACCELERATION IN SUPERNOVA REMNANT EXPANDING INSIDE WIND-BLOWN BUBBLE	DAS, Samata	
Escape-limited maximum energy at perpendicular shocks in the interstellar magnetic field	KAMIJIMA, Shoma	
Particle acceleration in colliding shocks and nonlinear reacceleration	VIEU, Thibault	
PeV Cosmic Ray acceleration in the supernova post breakout expansion phase: kinetic-magnetohydrodynamic simulations	INOUE, Tsuyoshi	
Particle-in-Cell Simulations of Synchrotron Maser Emission and Associated Particle Acceleration in Relativistic Shocks	IWAMOTO, Masanori	
Particles acceleration in quasi-perpendicular non-relativistic High Mach number shocks	KUMAR, Naveen	
Lepton-driven Non-resonant Streaming Instabilities	GUPTA, Siddhartha	
A Kinetic Study of the Saturation of the Bell Instability	ZACHAREGKAS, Georgios	
The Theory of Efficient Particle Acceleration at Shocks	CAPRIOLI, Damiano	
Electron-beam instabilities in the foreshock of high Mach number oblique shocks	WEIDL, Martin	
Electron Pre-acceleration Through Stochastic Shock Drift Acceleration at Intracluster Shocks	NIEMIEC, Jacek	
Cosmic ray acceleration and transport	PFROMMER, Christoph	
Using PIC and PIC-MHD to investigate the occurrence of Fermi-1 acceleration in astrophysical shocks	VAN MARLE, Allard Jan	
Magnetic field amplification at planetary and astrophysical high Mach-number shocks	BOHDAN, Artem	
Particle acceleration by sound waves generated in the shock downstream region	YOKOYAMA, Shota	
Unfolding of the vortical amplification of the magnetic field at inward shocks of Supernova remnant Cassiopeia A	FRASCHETTI, Federico	
Consequences of electron reflection back upstream in oblique shocks	MORRIS, Paul	

Discussion: 28 Searches for Transients | MM (12:00 PM-1:30 PM)

title	presenter	board
The AGILE real-time analysis pipelines in the multi-messenger era.	PARMIGGIANI, Nicolò	
Model independent search for transient multimessenger events with AMON using outlier detection methods	GRÉGOIRE, Timothée	
Astro-COLIBRI: The coincidence library for real-time inquiry for multi-messenger astrophysics	SCHÜSSLER, Fabian	
The Science Alert Generation system of the Cherenkov Telescope Array Observatory.	BULGARELLI, Andrea	

Theoretical interpretation of the observed neutrino emission from Tidal Disruption Events	WINTER, Walter	
Sensitivity of the Cherenkov Telescope Array to emission from the gamma-ray counterparts of neutrino events	SERGIJENKO, Olga	
Multi-messenger and real-time astrophysics with the Baikal-GVD telescope	SUVOROVA, Olga	
Evaluating cosmic coincidences in the context of astrophysical source populations	CAPEL, Francesca	
Detection prospects for low-energy neutrinos from collisionally heated GRBs with current and future neutrino telescopes	ZEGARELLI, Angela	
Real-time Multi-Messenger Analysis Framework of KM3NeT	HUANG, Feifei	
UHECRs in harmonic space	CAMERA, Stefano	
Probing the particle acceleration at trans-relativistic shocks with gamma-ray burst afterglows	TAKAHASHI, Kazuya	
Constraining the contribution to Gamma-Ray Bursts to the high-energy diffuse neutrino flux with 10 years of ANTARES data	ZEGARELLI, Angela	
Realtime follow-up of astrophysical transients with the IceCube Neutrino Observatory	PIZZUTO, Alex	
Search for nanosecond-fast optical transients with TAIGA-HiSCORE array.	PANOV, Alexander	
Search for high-energy neutrino sources from the direction of IceCube alert events	KARL, Martina	
German-Russian Astroparticle Data Life Cycle Initiative to foster Big Data Infrastructure for Multi-Messenger Astronomy	TOKAREVA, Victoria	

Discussion: 36 Shower Reconstruction and Pointing | NU (12:00 PM-1:30 PM)

title	presenter	board
Atmospheric neutrinos with the first detection units of KM3NeT-ARCA	SINOPOULOU, Anna	
A novel microstructure based model to explain the IceCube ice anisotropy	RONGEN, Martin	
Solar Atmospheric Neutrinos searches with ANTARES neutrino telescope	LOPEZ-COTO, Daniel	
The Baikal-GVD neutrino telescope as an instrument for studying Baikal water luminescence	DVORNICKY, Rastislav	
Methods for the suppression of background cascades produced along atmospheric muon tracks	BARDAČOVÁ, Zuzana	
Atmospheric neutrinos from the first KM3NeT/ORCA data and prospects for measuring the atmospheric neutrino flux	STAVROPOULOS, Dimitris	
Development of the Double Cascade Reconstruction Techniques in the Baikal-GVD Neutrino Telescope	ECKEROVÁ, Eliška	
The Baikal-GVD neutrino telescope: search for high-energy cascades	DZHILKIBAEV, Zhan-Arys	
Posteriori analysis on IceCube double pulse tau neutrino candidates	TIAN, Wei	
Recent Progress in Solar Atmospheric Neutrino Searches with IceCube	VILLARREAL, Joshua	
Optical analysis of the Pacific Ocean Neutrino Experiment (P-ONE) site using data from the first pathfinder mooring	FRUCK, Christian	

Discussion: 50 Galactic Compact Objects: Pulsars, Binary Systems, Microquasars | GAD-GAI (12:00 PM-1:30 PM)

title	presenter	board
Gamma-ray heartbeat powered by the microquasar SS 433	LI, Jian	
Study of the gamma-ray state changes of PSR J2021+4026 with Fermi-LAT	FIORI, Alessio	
Evidence for inverse Compton emission from globular clusters	SONG, Deheng	
Joint Analysis of Fermi-LAT and HAWC Observations of SS 433/W50	FANG, Ke	
Polarization measurements of the Crab Pulsar with POLAR	LI, Hancheng	
Using Phase-resolved Spectral and Energy-dependent Light Curve Modelling of the Vela Pulsar to Scrutinize its GeV Emission Mechanism	BARNARD, Monica	
Predictions for TeV fluxes from "Spider" Compact Millisecond Pulsar Binaries	WADIASINGH, Zorawar	
Modeling Very-High-Energy Emission from Pulsars	HARDING, Alice	
Modelling uncertainties in GeV - TeV flux predictions of Galactic globular clusters	VENTER, Christo	
TeV and Optical Observations of the Be/pulsar binary 1A0535+262 during the 2020 giant outburst	LUNDY, Matthew	
Very High Energy Gamma-ray Emission from the Binary System LS I +61 303	KIEDA, David	
MAGIC detection of Geminga: an Inverse Compton tail?	CERIBELLA, Giovanni	
MAGIC results on Galactic binaries	MOLINA, Edgar	

Break (1:30 PM-2:00 PM)**Plenary: Highlight 05 (2:00 PM-3:30 PM)**

-Conveners: Henning Gast

time	title	presenter
2:00 PM	New Results from the first 5 years of CALET observations on the International Space Station	MARROCCHESI, Pier Simone
2:30 PM	Recent status and results of the Dark Matter Particle Explorer	LI, Xiang
3:00 PM	High-energy neutrino emission from blazars	OIKONOMOU, Foteini

Break (3:30 PM-4:00 PM)**Plenary: Highlight 06 (4:00 PM-5:30 PM)**

-Conveners: Markus Ackermann

time	title	presenter
4:00 PM	IceCube: The Window to the Extreme Universe	KOWALSKI, Marek
4:30 PM	Nearly a Decade of Cosmic Ray Observations in the Very Local Interstellar Medium	RANKIN, J.S.
5:00 PM	Highlights from the GRAPES-3 experiment	MOHANTY, Pravata

Break (5:30 PM-6:00 PM)

Discussion: Presenter Forum 1 - Evening | All Categories - Continued in Presenter Forum 2 with identical contributions and allocations (6:00 PM-7:30 PM)

title	presenter	board
Pulse height-length analysis of data from neutron monitors DOMC/DOMB with a new data acquisition system	POLUIANOV, Stepan	
Diurnal anisotropy enhancement due to non-Earth directed coronal mass ejections	RUFFOLO, David	
First direct evidence of the CNO fusion cycle in the Sun with Borexino	KUMARAN, Sindhujha	
Solar Neutron and Gamma-ray Spectroscopy Mission: SONGS	YAMAOKA, Kazutaka	
Sensitivity estimation of LHAASO-WCDA for observing GLE events	ZHANG, yunfeng	
Using magnetic ray-tracing to reproduce the Sun's cosmic-ray shadow as seen by IceCube	KLEIMANN, Jens	
Geoeffective space weather events signatures in cosmic rays during the ascending phase of the solar cycle 24	GIL, Agnieszka	
The Small Size Telescopes for the Southern Site of the Cherenkov Telescope Array	WHITE, Richard	
Towards observations of nuclearites in Mini-EUSO	PIOTROWSKI, Lech	
Muography background sources: simulation, characterization, and machine-learning rejection	PEÑA-RODRÍGUEZ, Jesús	
The TRISTAN detector. Cosmic ray survey between latitudes 38°N and 53°S along the Atlantic Ocean	GARCIA-CASTRO, Damián	
First results from the TRAGALDABAS Cosmic ray detector at the Univ. of Santiago de Compostela	GARZÓN , Juan A.	
Hybrid cosmic ray measurements using the IceAct telescopes in coincidence with the IceCube and IceTop detectors	SCHAUFEL, Merlin	
An extensive study for correcting the nonlinear particle density measured by GRAPES-3 scintillator detectors	CHANDRA, Anuj	
Calibration system of EAS Cherenkov arrays using commercial drone helicopter.	FAZLIAKHMETOV, Almaz	
Influence of Simultaneous particles on the LAGO's Water Cherenkov Detectors	OTINIANO, Luis	
Simulating the signal of the AMIGA underground detectors of the Pierre Auger Observatory	BOTTI, Ana Martina	
Vetoing the high energy showers in the GRAPES-3 experiment whose cores lie outside the array	CHAKRABORTY, Medha	
Measurement of the improved angular resolution of GRAPES-3 EAS array by the observation of the Moon shadow	PATTANAİK, Diptiranjana	
Zenith angle dependence of pressure effect in GRAPES-3 muon telescope	ZUBERI, Meeran	
Measurement of large angle muon flux in GRAPES-3 experiment using triggerless DAQ system	HARIHARAN, Balakrishnan	
Geometry and optics calibration of WFCTA telescopes using star light	CHEN, Suhong	
Lateral density distributions of muons and electrons in EAS from the KASCADE-Grande data for different zenith angle intervals.	RIVERA-RANGEL, David	
TA SD energy and arrival direction estimation using deep learning	KALASHEV, Oleg	
Study of Longitudinal Development of Cosmic-Ray Induced Air Showers with LHAASO-WFCTA	LIU, hu	

Tunka-Grande array for high-energy gamma-ray astronomy and cosmic-ray physics: preliminary results.	IVANOVA, Anna	
Atmospheric depth Models in the Field of View of LHAASO-WFCTA	XIA, J.J	
On the need for unbiasing azimuthal asymmetries in signals measured by surface detector arrays	LUCE, Quentin	
Parameterization of muon production profiles in the atmosphere	VERPOEST, Stef	
Performance and simulation of the surface detector array of the TAx4 experiment	FUJISUE, Kozo	
Reconstruction the production depth of muon in air shower	WANG, liping	
The performances of the LHAASO-KM2A tested by the observation of cosmic-ray Moon shadow.	NAN, Yuncheng	
Study of the calibration method using the stars measured by the EUSO-TA telescope	PLEBANIAK, Zbigniew	
Boosting the performance of the neural network using symmetry properties for the prediction of the shower maximum using the water Cherenkov Detectors of the Pierre Auger Observatory as an example	HAHN, Steffen	
Feasibility Studies on improved Proton Energy Reconstruction with IACTs	FATTORINI, Alicia	
Universality of Cherenkov Light in EAS	BUCKLAND, Isaac	
Simulations studies for the Mini-EUSO detector	FENU, Francesco	
A performance study of the K-EUSO space based observatory	FENU, Francesco	
A complete model of the signal in surface detector arrays and its application for the reconstruction of mass-sensitive observables.	STADELMAIER, Max	
Machine learning aided noise filtration and signal classification of the CREDO smartphone data	BIBRZYCKI, Łukasz	
Analysis of capability of detection of extensive air showers by simple scintillator detectors	PRYGA, Jerzy	
Discrimination of Muons for Mass Composition Studies of Inclined Air Showers Detected with IceTop	BALAGOPAL V., Aswathi	
Zenith Angle Distribution of Incoherent Cosmic Ray Muon Flux Using CREDO Smartphones	WIBIG, Tadeusz	
The Electron-Neutron Detector Array (ENDA), Status and Coincidence with LHAASO	LI, Bingbing	
The Upgrade of Horizon-T Detector	BEZNOSKO, Dmitriy	
Study horizontal air showers with LHAASO-KM2A	GOU, Quanbu	
Assessment of moisture reserves by CR secondary neutrons sounding method	DORMAN, Lev	
Characteristics of thunderstorm activity at LHAASO observatory	HUANG, Daihui	
The first cross-calibration of Imaging Atmospheric Cherenkov Telescopes with a UAV-based airborne calibration platform	MULLER, Jacques	
On the Use of Convolutional Neural Networks for Turbulent Magnetic Field Helicity Classification	PINCIROLI VAGO, Nicolò Oreste	
Halloween GLEs on October-November 2003, spectra and angular distribution-new revised results	MISHEV, Alexander	
Performance of the current and extended global NM network for solar particle registration and analysis	MISHEV, Alexander	
Application of the verified neutron monitor yield function for GLE analysis	MISHEV, Alexander	

Invitation to the Comic Ray Extremely Distributed Observatory	HOMOLA, Piotr	
Observations of track-like neutrino events with Baikal-GVD	ZABOROV, Dmitry	
Tuning parametric models of the atmospheric muon flux in MUPAGE to data from the KM3NeT detector	Ó FEARRAIGH, Brían	
A photomultiplier tube model for the water Cherenkov detectors of the LAGO	PEÑA-RODRÍGUEZ, Jesús	
GDAS atmospheric models in astroparticle shower simulations	GRISALES-CASADIEGOS, Jennifer	
Atmospheric Electric Field Effects on Cosmic Rays detected at Sierra Negra, Mexico	NEWTON BOSCH, Bertha Jania	
CoREAS simulations of inclined air showers predict refractive displacement of the radio-emission footprint	GOTTOWIK, Marvin	
Improvised Explosive Devices and cosmic rays	VÁSQUEZ RAMÍREZ, Adriana	
A Spectral Cosmic Ray Model for Cosmological Simulations	BÖSS, Ludwig	
Development of bases and qualification tests of Photomultiplier Tubes for the AugerPrime scintillation detectors	RAUTENBERG, Julian	
High-mountain hybrid installation for multicomponent detection of air-showers induced by ultra-high energy cosmic rays	SHINBULATOV, Saken	
Modeling the influence of the solar cosmic rays protons on the Earth's atmosphere over a wide range of heights	MAURCHEV, Eugeny	
Expected performance of the AugerPrime Radio Detector	SCHLÜTER, Felix	
The EOSC-Synergy cloud services implementation for the Latin American Giant Observatory (LAGO)	ASOREY, Hernán	
"Chronotron" timing detectors for EAS studies	BAKTORAZ, Aliya	
Measurement of UV light emission of the nighttime Earth by Mini-EUSO for space-based UHECR observations	SHINOZAKI, Kenji	
Mass composition of Telescope Array's surface detectors events using deep learning	KHARUK, Ivan	
A Review of Cosmic Rays of LHAASO	ZHANG, Shoushan	
A search for ultra-high-energy photons at the Pierre Auger Observatory exploiting air-shower universality	SAVINA, Pierpaolo	
On the cosmic-ray energy scale of the LOFAR radio telescope	MULREY, Katharine	
Update of the Offline Framework for AugerPrime	NELLEN, Lukas	
Design and simulation of a cost-affordable Cosmic Ray Muon Tomographer	RENGIFO GONZÁLES, Javier	
Latest results from the PolarquEEEst missions	ABBRESCIA, Marcello	
Optimization of CoREAS simulations for the GRAND project	ZHANG, Chao	
Simulation Study on Scaler Mode in LHAASO-KM2A	HUANG, Daihui	
The impact of photonuclear reaction models on propagation of ultrahigh energy cosmic rays	KIDO, Eiji	
Event-by-event reconstruction of the shower maximum X_{max} with the Surface Detector of the Pierre Auger Observatory using deep learning	GLOMBITZA, Jonas	
K-EUSO detector with refractive optical system	SHARAKIN, Sergei	
A study of analysis method for the identification of UHECR source type	YOSHIDA, Fugo	

Study of the potential of MATHUSLA as a cosmic ray detector	FERNANDEZ TELLEZ, Arturo	
Operations of the Pierre Auger Observatory	CARUSO , Rossella	
Status and Future Prospects of the KASCADE Cosmic-ray Data Centre KCDC	HAUNGS, Andreas	
Monte Carlo simulations for the Pierre Auger Observatory using the VO Auger grid resources	SANTOS, Eva	
Probing UHECR and cosmic ray ensemble scenarios with a global CREDO network	TURSUNOV, Arman	
Acceleration of UHECR by local supermassive black hole candidates	TURSUNOV, Arman	
Estimation of the exposure of the TUS space based cosmic ray observatory	FENU, Francesco	
Analysis of TAx4 hybrid trigger and events	KIM, Sangwoo	
Reconstruction of air shower events measured by the surface detectors of the TAx4 experiment	JEONG, Hyomin	
Extraction of the Muon Signals Recorded with the Surface Detector of the Pierre Auger Observatory Using Recurrent Neural Networks	CARCELLER, Juan Miguel	
COSMOS X as a general purpose air shower simulation tool	SAKO, Takashi	
Cosmic Ray Detection at the Murchison Radio-astronomy Observatory – a pathfinder for SKA-Low	WILLIAMSON, Alexander	
Study of mass composition of cosmic rays with IceTop and IceCube	KOUNDAL, Paras	
Parametrization of the Relative Amplitude of Geomagnetic and Askaryan Radio Emission from Cosmic-Ray Air Showers using CORSIKA/CoREAS Simulations	PAUDEL, Ek Narayan	
Cosmic-ray transport in blazars: diffusive or ballistic propagation?	REICHERTZER, Patrick	
The EUSO@TurLab project in view of Mini-EUSO and EUSO-SPB2 missions	BERTAINA, Mario Edoardo	
Observing Ultra-High Energy Cosmic Rays using Camera Image Sensors	TAKANO, Wakiko	
Interferometric Air Shower Reconstruction With LOFAR	PANDYA, Hershul	
Formation and propagation of cosmic-ray ensembles	SUSHCHOV, Oleksandr	
EXTREMELY HIGH ENERGY ($E > 10^{20}$ eV) COSMIC RAYS: OBSERVATIONS AND POTENTIAL SOURCES	VOITSEKHOVSKYI, Vadym	
Studies of a muon-based mass sensitive parameter for the IceTop surface array	KANG, Donghwa	
Small shower array for education purposes. CREDO-Maze Project	KARBOWIAK, Michał	
The atmospheric transparency of Telescope Array observation site by the CLF	TOMIDA, Takayuki	
UCIRC2: EUSO-SPB2's Infrared Cloud Monitor	DIESING, Rebecca	
Study of the effect of seismically-induced geoelectric and geomagnetic fields on secondary particle detection at a LAGO site.	COLOMA BORJA, Diego Alberto	
Particle density fluctuations and correlations in low energy Cosmic-Ray showers simulated with CORSIKA	STANEK, Weronika	
A reconstruction procedure for very inclined extensive air showers based on radio signals	DECOENE, Valentin	
Upper limits on the cosmic-ray luminosity of supernovae in nearby galaxies	SASSE, Rodrigo	
Estimation of aperture of the Tunka-Rex radio array for cosmic-ray air-shower measurements	LENOK, Vladimir	
Modeling the spectrum and composition of ultrahigh-energy cosmic rays with two populations of extragalactic sources	DAS, Saikat	

Updates from the OVRO-LWA: Commissioning a Full-Duty-Cycle Radio-Only Cosmic Ray Detector	PLANT, Kathryn	
Observations of the cosmic ray detector at the Argentine Marambio base in the Antarctic Peninsula	SANTOS, Noelia Ayelén	
Study Anti-correlation between Neutron Detection Efficiency of the Electron-Neutron Detector Array (ENDA) and Soil Moisture	SHI, Cong	
Expected Performance of the EUSO-SPB2 Fluorescence Telescope	FILIPPATOS, George	
Simulations of Cosmic Ray Ensembles originated nearby the Sun	ALVAREZ-CASTILLO, David	
The ASTRI-Horn telescope: comparison with the auxiliary UVscope measurements as calibration tool.	COMPAGNINO, Antonio Alessio	
Logging UnifiedD for ASTRI Mini Array	INCARDONA, Federico	
UHECR mass composition from anisotropy of their arrival directions with the Telescope Array SD	KUZNETSOV, Mikhail	
New cross section determination for secondary cosmic ray electron and positrons in the light of new data from collider experiments	ORUSA, Luca	
Mass composition compatibility test using X_{max} distributions recorded by the Pierre Auger and Telescope Array Observatories	ARSENE, Nicusor	
Telescope Array Cloud Ranging Test	OKUDA, Takeshi	
The pervasive mechanism that accelerates cosmic rays at all the energies	CODINO, Antonio	
Predicting the UHE photon flux from GZK-interactions of hadronic cosmic rays using CRPropa 3	RUEHL, Philip	
Looking for long-range correlations among the EEE telescopes	LA ROCCA, Paola	
The contribution of distant sources to the observed flux of ultra high-energy cosmic rays	OWEN, Ellis	
On the nature of primary particles producing air showers with energies greater than 5 EeV	PETROV, Igor	
New Constraints on Cosmic Particle Populations at the Galactic Center using X-ray Observations of the Molecular Cloud Sagittarius B2	ROGERS, Field	
AGN jet heating with cosmic rays in magnetized, turbulent galaxy clusters	EHLERT, Kristian	
Study of the energy spectrum of cosmic rays obtained at the Hadron 55 installation located at an altitude of 3340 m.	BERDYKHALYK, Tleu	
On the possible method of identification of two probably cognate extensive air showers	BEZNOSKO, Dmitriy	
The diffuse supernova neutrino background in Super-Kamiokande	EL HEDRI, Sonia	
P1 and P2 Emission of the Crab Pulsar for Medium to Large-Size IACT Calibration	MIRZOYAN, Razmik	
Southern African Large Telescope Spectroscopy of BL Lacs for the CTA project	KASAI, Eli	
A northern sky survey for ultra-high-energy gamma-ray source using the Tibet air-shower array and muon-detector array.	CHEN, Xu	
Periodicity Analysis of Mrk 501 and Mrk 421 in Gamma Rays	IOTOV, Roman	
News from the African Gamma-ray sky: Highlights from the H.E.S.S. experiment	WAGNER, Stefan	
Ultra-high Energy Inverse Compton Emission from Galactic Electron Accelerators	BREUHAUS, Mischa	

Science verification of the new FlashCam-based camera in the 28m telescope of H.E.S.S.	PÜHLHOFER, Gerd	
Fundamental Particle Physics with SWGO	ALBERT, Andrea	
TAIGA-Observatory: First 5 years of operation of the HiSCORE Air-Cerenkov Array	PORELLI, Andrea	
Effect of SiPM correlated noise and Photon Detection Efficiency into Imaging Atmospheric Cherenkov Telescopes	NAGAI, Andrii	
Satellite-based Calibration of the TAIGA-HiSCORE Cerenkov Array by the LIDAR on-board CALIPSO	PORELLI, Andrea	
The COMET multiperspective event tracker for wide field-of-view gamma-ray astronomy	KUKEC MEZEK, Gašper	
Searching for >100 TeV emission in the vicinity of Mrk 501 with HAWC	ALBERT, Andrea	
Characterizing the isotropic diffuse gamma-ray flux (10-300 TeV) by the GRAPES-3 experiment	PANT, Bhanu	
FACT - Database-based Analysis and Spectrum Calculations	SCHLEICHER, Bernd	
Lake Deployment of Southern Wide-field Gamma-ray Observatory (SWGO) Detector Units	GOKSU, Hazal	
Gamma-ray Observation of the Cygnus Region with the Tibet Air Shower Array	KATAYOSE, Yusaku	
Gamma/hadron discrimination using a small-WCD with four PMTs	CONCEIÇÃO, Ruben	
Extragalactic Observatory Science with the ASTRI Mini-Array at the Observatorio del Teide	SATURNI, Francesco Gabriele	
Development of a Detector Prototype for future High Energy Gamma Ray Experiments	KRYEMADHI, Abaz	
GPU Accelerated optical light propagation in CORSIKA8	BAACK, Dominik	
Observation of a relatively low luminosity long duration GRB 201015A by the MAGIC telescopes	SUDA, Yusuke	
BL Lac object 1ES 0647+250, a decade of MWL observations	OTERO-SANTOS, Jorge	
Magnetic field amplification by turbulent dynamo in relativistic collisionless shocks	TOMITA, Sara	
Excess estimation in On/Off measurements including single-event variables	D'AMICO, Giacomo	
Active Galactic Nuclei population studies with the Cherenkov Telescope Array	BROWN, Anthony	
The Monitoring, Logging, and Alarm system for the Cherenkov Telescope Array	COSTA, Alessandro	
CTbend: A Bayesian open-source framework to model pointing corrections of Cherenkov telescopes	SPENGLER, Gerrit	
A single photoelectron calibration system for the NectarCAM camera of the Cherenkov Telescope Array Medium-Sized Telescopes	SHARMA, Pooja	
The Application of 20 inch PMT in LHASSO-WCDA	YOU, Xiaohao	
Intensity interferometry with the MAGIC telescopes	DELGADO, Carlos	
The Online Observation Quality System for the ASTRI Mini Array.	PARMIGGIANI, Nicolò	
The Architecture of ASTRI Mini Array Cherenkov Camera Software Supervisor	CORPORA, Mattia	
TAIGA-IACT control and monitoring software status	ZHUROV, Dmitriy	
MAGIC observations of the nearby short GRB 160821B	NODA, Koji	
The Cherenkov Telescope Array: layout, design and performance	GUETA, Orel	

Performance of the ASTRI Mini-Array at the Observatorio del Teide	LOMBARDI, Saverio	
The search for high altitude sites in South America for the SWGO detector	DORO, Michele	
Performance of the Cherenkov Telescope Array in the presence of clouds	PECIMOTIKA, Mario	
Search for Very High Energy Emission from the millisecond pulsar PSR J0218+4232	COLAK, Sidika Merve	
Modification of the gamma-ray spectra from active galaxies by soft radiation of transiting luminous stars	BEDNAREK, Wlodek	
Constraining the diffuse supernova axion-like-particle background with high-latitude Fermi-LAT data	ECKNER, Christopher	
Charov: a tool for neutrino flux generation from WIMPs	LIU, Qinrui	
A Search for Neutrinos From Decaying Dark Matter in Galaxy Clusters and Galaxies with IceCube	JEONG, Minjin	
A detectable antihelium flux from dark matter annihilation	WINKLER, Martin	
Reconstruction of antinucleus-annihilation events in the GAPS experiment	TIBERIO, Alessio	
Limits on the flux of heavy compact objects from the the "Pi of the Sky" project	PIOTROWSKI, Lech	
Light (anti)nuclei production cross section studies in p+C collisions at the NA61/SHINE experiment.	NASKREŃ, Michał	
Large-scale simulations of antihelium production in cosmic-ray interactions	SHUKLA, Anirvan	
Expected performance of the High-Energy Particle Detector onboard the second China Seismo-electromagnetic Satellite	SAHNOUN, Zouleikha	
Searching for fractionally charged particles based on DAMPE	LIU, Chengming	
Performance of the DAMPE silicon-tungsten tracker during the first 5 years of in-orbit operation	PERRINA, Chiara	
Interplay between eclipses and soft cosmic rays	ROY, Shreya	
Harmonic Interference of Earth's Orbital Velocity and the Sidereal Cosmic Ray Anisotropy	DÍAZ VÉLEZ, Juan Carlos	
Beam Test Results of the ISS-CREAM Calorimeter	ZHANG, Hongguang	
Cosmic Antiproton Sensitivity for the GAPS Experiment	ROGERS, Field	
The Trans-Iron Galactic Element Recorder for the International Space Station (TIGERISS)	RAUCH, Brian	
Determination of Expected TIGERISS Observations	RAUCH, Brian	
SuperTIGER Ultra-Heavy Galactic Cosmic Ray Atmospheric Propagation Corrections and Uncertainty Analysis	RAUCH, Brian	
Calibration of Aerogel Tiles for the RICH of the HELIX Experiment	O'BRIEN, stephan	
Characterization of a prototype imaging calorimeter for the Advanced Particle-astronomy Telescope from Antarctic balloon flight and CERN beam test data.	HUGHES, Zachary	
Modeling the SuperTIGER Instrument and Response with Geant4	LABRADOR, A.W.	
Origin of Cosmic Rays and Thought Travels with CR Particles in Galaxy and in the Universe	DORMAN, Lev	
Charge Loss Correction in the Silicon-Tungsten Tracker-Converter for Proton-Helium Charge Identification in the DAMPE Detector	RUINA, Arshia	
Precision Measurement of low energy positron fluxes by AMS	GRAZIANI, maura	

Simulation of the DAMPE detector	JIANG, Wei	
On-orbit performance of the DAMPE BGO calorimeter	WEI, Yifeng	
Studies of cosmic ray anisotropies with DAMPE	LEI, Shijun	
ISS-CREAM detector performance and tracking algorithms	SAKAI, Kenichi	
The GAPS Instrument: A Large Area Time of Flight and High Resolution Exotic Atom Spectrometer for Cosmic Antinuclei	QUINN, Sean	
Monte-Carlo simulation of the NUCLEON-HERO orbital detector.	SATYSHEV, ILYAS	
Machine learning methods for helium flux analysis with DAMPE experiment	STOLPOVSKIY, Mikhail	
Simulating the galactic cosmic ray with non-uniform grids	GE, Yu-Hai	
Study of Desensitized Nuclear Emulsion Films with HIMAC heavy ion beams	OKUYAMA, Moegi	
Application of Desensitized Nuclear Emulsion films for Chemical Composition Study of Cosmic-ray Nuclei in GRAINE 2018 balloon-borne experiment	IYONO, Atsushi	
On-Orbit Energy Calibration of the Calorimeter on the ISS-CREAM Instrument Using the Boronated Scintillator Detector	CHEN, Yu	
Charge measurement of cosmic rays by Plastic Scintillator Detector of DAMPE	MA, Pengxiong	
Enabling low-power MAPS-based space trackers: a sparsified readout based on smart clock gating for the High Energy Particle Detector-02	RICCIARINI, Sergio Bruno	
The innovative particle tracker for the HEPD space experiment onboard the CSES-02	IUPPA, Roberto	
Ultra-Heavy Cosmic Ray Analysis with CALET on the International Space Station: Established and Developing Procedures	FICKLIN, Anthony	
Development of a Carbon-fiber reinforced polymer-based mechanics for embedding ALPIDE pixel sensors in the High-Energy Particle Detector space module onboard the CSES-02 satellite.	COLI, Silvia	
FIT: the scintillating fiber tracker of the HERD space mission	PERRINA, Chiara	
Design and expected performances of the large acceptance calorimeter for the HERD space mission.	PACINI, Lorenzo	
The analysis strategy for the measurement of the electron flux with CALET on the International Space Station	BERTI, Eugenio	
Deep learning based event reconstruction for Limadou HEPD	FOLLEGA, Francesco Maria	
The HEPD-02 trigger and PMT readout system for the CSES-02 mission	MESE, Marco	
The High Energy cosmic Radiation Detector (HERD) Trigger System	VELASCO, Miguel Angel	
Machine learning applications on event reconstruction and identification for ISS-CREAM	YU, Monong	
Neural Networks approach to event reconstruction for the GAPS experiment	MARCELLI, Nadir	
CSES-Limadou data processing at ASI-SSDC	MERGÈ, Matteo	
The HEPD-02 Data Processing and Control Unit for the CSES-02 mission	MASCIANTONIO, Giuseppe	
The High Energy Particle Detector operational status during 3 years of flight on board the China Seismo-Electromagnetic Satellite	DE DONATO, Cinzia	
Galactic Molecular Clouds As Sources of Secondary Positrons	DE SARKAR, Agnibha	
Study of Backscattering Effects on the Particle Identification	SEO, Eun-Suk	

Data Acquisition Software for a Prototype of LET Spectrometer	SUN, Wenrui	
The Plastic Scintillator Detector of the HERD space mission	KYRATZIS, Dimitrios	
On the overflowing of cosmic rays from galaxies and the expansion of cosmic matter	CODINO, Antonio	
A perturbative approach to a nonlinear advection-diffusion equation of particle transport	WALTER, Dominik	
A Data-Driven approach for the measurement of $^{10}\text{Be}/^9\text{Be}$ flux ratio in Cosmic Ray with magnetic spectrometers	NOZZOLI, Francesco	
An Helium calorimeter for Anti-Deuteron identification in cosmic rays	NOZZOLI, Francesco	
Solar Power Supply and Environmental Control System for DIMS Experiment	SHINTO, Daiki	
Testing of Palatini $f(R)$ gravity Power law model in Cosmological Perspectives	GOGOI, Dhruva Jyoti	
New flux limit in the low relativistic regime for magnetic monopoles at IceCube	LAUBER, Frederik	
Probing the properties of superheavy dark matter annihilating or decaying into neutrinos with ultra-high energy neutrino experiments	GUÉPIN, Claire	
Dark Matter Phenomenology from Upcoming Neutrino Telescopes:	CHEEK, Andrew	
Formation models for cosmic ray antinuclei	TJEMSLAND, Jonas	
Development of a Vacuum Ultraviolet Detector for Dark Photon Searches	KRYEMADHI, Abaz	
Testing the stability of heavy dark matter with up-coming radio neutrino telescopes	HAJJAR, Rasmi	
Nuclearite search with ANTARES	BOUTA, Mohammed	
Characterization of the DIMS system based on astronomical meteor techniques for macroscopic dark matter search	BARGHINI, Dario	
Searching for cosmic antihelium nuclei with the GAPS experiment	STOESSL, Achim	
An Optimized Search for Dark Matter in the Galactic Halo with HAWC	HARDING, Pat	
Search for TeV decaying dark matter from the Virgo cluster of galaxies	NISA, Mehr	
Limits on Diffuse Dark Matter with HAWC	DUROCHER, Mora	
Millisecond Pulsars Modify the Radio-SFR Correlation	SUDOH, Takahiro	
Astrophysical Implications of Neutrino Target-of-Opportunity Observations with Space-based and Suborbital Optical Cherenkov Detectors	VENTERS, Tonia	
Rigorous theory for the spectrum of secondary cosmic-ray electrons	IVLEV, Alexei	
Modelling TXS0506+056 with internal γ-γ secondaries	., sunanda	
ANTARES search for neutrino flares from the direction of radio-bright blazars	ILLUMINATI, Giulia	
Black-hole X-ray binaries in the new era of multi-messenger astronomy	KANTZAS, Dimitrios	
A model-independent analysis of neutrino flares detected in IceCube from X-ray selected blazars	SHARMA, Ankur	
Galactic Bulge VHE tau-neutrino and gamma-ray Monitor with Ashra-1 and NTA detectors	OGAWA, Satoru	
X-ray emission study of extreme Blazars using AstroSat data	GOSWAMI, Pranjupriya	
The Blazar Hadronic Code Comparison Project	CERRUTI, Matteo	
Multi-Messenger observations of the Fermi-LAT blazar 4FGL J0658.6+0636 consistent with an IceCube high-energy neutrino	DE MENEZES, Raniere	
Multi-zone model as origin of hard gamma-rays spectrum in extreme BL Lacs	AGUILAR, Edilberto	

Hadronic uncertainties of inclusive atmospheric lepton fluxes from fixed-target accelerators	FEDYNITCH, Anatoli	
An AGN-starburst composite multi-messenger model of NGC 1068	EICHMANN, Björn	
Improved Limits on Cosmogenic Fluxes from Ultra-High Energy Cosmic Rays	GROTH, Kathrine Mørch	
Study of the production of high-energy neutrinos in the environment of binary-neutron-star mergers.	ROSSONI, Simone	
PeV-EeV neutrinos from gamma-ray blazars due to ultrahigh-energy cosmic-ray propagation	DAS, Saikat	
Possible photohadronic origin of the IC-201114A alert	ROSALES DE LEON, Alberto	
Design and construction of a high temperature superconducting demonstrator coil of a toroidal magnet for an astroparticle physics experiment in space	ROSSI, Lucio	
Combined dark matter searches towards dwarf spheroidal galaxies with Fermi-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS	ARMAND, Celine	
VERITAS follow-up observation of the blazar TXS 0506+056	JIN, Weidong	
Search for dark matter from the center of the Earth with 8 years of IceCube data	RENZI, Giovanni	
First muon-induced neutron yields from NEMESIS experiment	JĘDRZEJCZAK, Karol	
Indirect searches for dark matter in the Galactic Centre with IceCube	IOVINE, Nadège	
Indirect Dark Matter searches from the Sun direction with ANTARES	POIRÉ, Chiara	
High-multiplicity neutron events registered by NEMESIS experiment	KASZTELAN, Marcin	
Cosmic-ray combined analyses to shed light in the antiproton excess and its possible dark matter origin	DE LA TORRE LUQUE, Pedro	
Multimessenger Constraints on Intergalactic Magnetic Fields from Flaring Objects	SAVELIEV, Andrey	
Constraining non-standard Dark Matter-Nucleon Interactions with IceCube	PETERS, Lilly	
Search for secluded dark matter with 6 years of IceCube data --- Christoph Toennis	TOENNIS, Christoph	
Coincident neutrino and gamma-ray emission from blazars	SCHROLLER, Marcel	
Neutrino Emission from Supermassive Binary Black Hole Mergers	JAROSCHEWSKI, Ilja	
Searching for Dark Matter Neutrino Scattering in the Galactic Centre with IceCube	MCMULLEN, Adam	
Model independent search for macroscopic dark matter with EUSO-SPB2	PAUL, Thomas	
Characterization of natural radioactivity in the BSUIN and EUL underground laboratories based on the developed standard scheme	SZKLINIARZ, Katarzyna	
Dark matter constraints from measurements of cosmic-ray positrons	JOHN, Isabelle	
Decaying dark matter in dwarf spheroidal galaxies: Prospects for X-ray and gamma-ray telescopes	ZIMMER, Fabian	
Antihelium-3 fluxes near Earth using data-driven estimates for annihilation cross section	ŠERKŠNYTĖ, Laura	
Suppression of the TeV pair-beam plasma instability by a weak intergalactic magnetic field	AL-AWASHRA, Mahmoud	
VERITAS dark matter search in dwarf Spheroidal galaxies: an extended source analysis	GIURI, Chiara	

New results from NEMESIS experiment	TRZASKA, Wladyslaw Henryk	
Decaying Dark Matter at IceCube and its Signature in High-Energy Gamma-Ray Experiments	SKRZYPEK, Barbara	
Indirect Dark Matter searches in the gamma-ray channel toward the Sun with the Fermi LAT	LOPARCO, Francesco	
Upper limits on the WIMP annihilation cross section from a joint analysis of dwarf spheroidal satellite galaxy observations with the MAGIC telescopes	MAGGIO, Camilla	
Search for dark matter annihilation towards the inner Milky Way halo with the H.E.S.S. Inner Galaxy Survey	MONTANARI, Alessandro	
Interpretation of blazar flares of various types in a unified model	WANG, Ze-Rui	
A Modern High-Precision Calculation of Deep Underground Cosmic Ray Muons	WOODLEY, William	
Searching for Millicharged particles produced in cosmic-ray showers	MUÑOZ, Víctor	
An atmospheric neutrino flux calculation constrained by measurements of cosmic muon fluxes	YANEZ, Juan-Pablo	
gammaALPs: An open-source python package for computing photon-axion-like-particle oscillations in astrophysical environments	MEYER, Manuel	
Searching for dark matter sources in Fermi-LAT's unIDs with Machine Learning	GAMMALDI, Viviana	
Cherenkov Telescope Array sensitivity to branon dark matter models	AGUIRRE-SANTAELLA, Alejandra	
An Investigation into the Origin of short-term flaring Gamma-ray Emission of TON 599	GREEN, Jacob	
AstroSat View of Blazar OJ 287: A complete evolutionary cycle of HBL Component from end-phase to disappearance and Re-emergence	KUSHWAHA, Pankaj	
The Advanced Particle-astrophysics Telescope: Simulation of the Instrument Performance	CHEN, Wenlei	
A monitor of the Cosmic X-ray Background	LI, Hancheng	
Observational constraints on the blazar jet wobbling timescale	JURYŠEK, Jakub	
The Diffuse Supernova Neutrino Background in Super-Kamiokande	GIAMPAOLO, Alberto	
Observation of sub-GeV atmospheric gamma rays on GRAINE 2018 balloon experiment and comparison with HKKM calculation	ROKUJO, Hiroki	
Bayesian inference of three-dimensional gas maps: Galactic CO	MERTSCH, Philipp	
Neutrino mass ordering determination through combined analysis with JUNO and KM3NeT/ORCA	ATHAYDE MARCONDES DE ANDRÉ, João Pedro	
Systematic X-ray study of GeV gamma-ray emitting radio galaxies	MATAKE, Hiroto	
Inter Galactic Magnetic field constraints through the gamma ray observations of the Extreme High-frequency-peaked BL Lac candidate HESS 1943+213	DA VELA, Paolo	
Search for gamma-ray lines in the Galaxy with DAMPE	XU, Zun-Lei	
Observations of gamma-ray sources with DAMPE	DUAN, Kai-Kai	
GECCO, the Facets of its Science related to Active Galaxies	BOTTACINI, Eugenio	
The Origin of Gamma-ray Emission from Circinus Galaxy	GUO, Xiao-Lei	
The gamma-ray emission in the region of W49A with Fermi-LAT	XIN, Yuliang	
On the origin of the gamma-ray emission toward HESS J1813-178 with Fermi-LAT	XIN, Yuliang	

Decelerated sub relativistic material with energy Injection	BETANCOURT KAMENETSKAIA, Boris	
Sensitivity estimates for diffuse, point-like and extended neutrino sources with KM3NeT/ARCA	MULLER, Rasa	
High-resolution Imaging Calorimeter based on position-sensitive virtual Frisch-grid CdZnTe detectors for gamma-ray space instruments	BOLOTNIKOV, Aleksey	
Short-Baseline neutrino oscillation searches with the ICARUS detector	KOSE, Umut	
Uncertainties of the energy loss by inelastic interactions of muons with nuclei	SANDROCK, Alexander	
Cosmic Ray Elemental Spectra and Atmospheric Neutrino Fluxes	SCRANDIS, Rachel	
Searching for High Energy Neutrinos from Magnetars with IceCube	GHADIMI, Ava	
X-ray binaries with the Fermi Large Area Telescope: a large scale survey in time and space.	HARVEY, Max	
A model-driven search for extreme BL Lacs among Fermi-LAT blazar candidates.	NIEVAS ROSILLO, Mireia	
The ablation of gas clouds by blazar jets and the long-lasting flare in CTA 102	ZACHARIAS, Michael	
The imprint of protons on the emission of extended blazar jets	ZACHARIAS, Michael	
High-energy gamma-ray observations above 10 GeV with CALET on the International Space Station	MORI, Masaki	
HI absorption and Galactic Center Excess	GORDON, Chris	
High Energy Gamma-Ray Emission from the Coma Cluster Region: Deep Morphological and Spectral Studies.	ZARGARYAN, Davit	
Investigating the millisecond pulsar and dark matter interpretations of the gamma ray excess of the Andromeda Galaxy	ZIMMER, Fabian	
Bispectrum analysis of the unresolved gamma-ray background	PEERBOOMS, Ebo	
GeV-radio correlation in Markarian 421	VITALII, Sliusar	
Constraints on the antistar fraction in the Solar System neighborhood from the 10-years Fermi Large Area Telescope gamma-ray source catalog	DUPOURQUÉ, Simon	
Study of Al-26 in the COSI 2016 Superpressure Balloon Flight	BEECHERT, Jacqueline	
The gamma-ray Moon seen by the Fermi LAT over a full solar cycle	DE GAETANO, Salvatore	
Exploring the variability properties of gamma-ray emission from blazars	BHATTA, Gopal	
Spectrum of the Isotropic Diffuse Gamma-ray Background	RAJAGOPAL, Meenakshi	
Low-energy gamma-ray observations above 1 GeV with CALET on the International Space Station	CANNADY, Nicholas	
Detection of new Misaligned Active Galactic Nuclei in the Fermi-LAT Fourth Source Catalog using machine learning techniques	DEVAL, Luca	
Fermi acceleration and γ-γ obscuration along the orbit of β Carinae	BALBO, Matteo	
Gamma-ray observations of W44 and its surroundings	PERON, Giada	
An analytical derivation of the survival probability of muon penetrating through matters	NAKATSUKA, Takao	
KM3NeT/ARCA sensitivity to transient neutrino sources	PALACIOS GONZÁLEZ, Juan	
Exploring the Potential of Multi-Detector Analyses for Core-Collapse Supernova Neutrino Detection	BENDAHMAN, Meriem	

A Numerical Approach to Angular Distributions in Hadronic Cascades	KOZYNETS, Tetiana	
A novel multimessenger study of Starburst galaxies: implications for neutrino astronomy	MARINELLI, Antonio	
Latest results on neutrino non-standard interactions with ANTARES and KM3NeT/ORCA Phase 1	MANCZAK, Jerzy	
Detection of Small-Scale Components in Power Law Spectra via the Application of Functional Data Analysis	RUHE, Tim	
Upgrade of Honda atmospheric neutrino flux calculation with implementing recent hadron interaction measurements	SATO, Kazufumi	
KM3NeT performance on oscillation and absorption tomography of the Earth	MADERER, Lukas	
Simulation of the Response of a Modular Scintillator Detector to Secondary Cosmic Ray flux	OTINIANO, Luis	
KM3NeT Core Collapse Supernovae observation program in standalone and multi-messenger modes	KULIKOVSKIY, Vladimir	
Vertex and energy reconstruction of UHE particles using in-ice radar for the RET experiment	LATIF, Uzair Abdul	
PLEnuM: A global and distributed monitoring system of high-energy astrophysical neutrinos	SCHUMACHER, Lisa	
Observation of the cosmic ray shadow of the Sun with the ANTARES neutrino telescope	SANGUINETI, Matteo	
Low energy radioactivity BG model in Super-Kamiokande detector from SK-IV data	PRONOST, Guillaume	
Seasonal variation of atmospheric muons	GAISSER, Thomas	
Neutrinos from charm: forward production at the LHC and in the atmosphere	JEONG, Yu Seon	
Supernova Neutrino Detection with LHAASO-MD	LIU, Dong	
Update of the supernova neutrinos monitoring with the LVD experiment	VIGORITO, CARLO FRANCESCO	
Energy reconstruction with the Radio Neutrino Observatory Greenland (RNO-G)	WELLING, Christoph	
Comparison of the measured atmospheric muon rate with Monte Carlo simulations and sensitivity study for detection of prompt atmospheric muons with KM3NeT	KALACZYŃSKI, Piotr	
Simulation of the propagation of CR air shower cores in ice	DE KOCKERE, Simon	
Seasonal Variations of the Unfolded Atmospheric Neutrino Spectrum with IceCube	HYMON, Karolin	
Arrival time distribution of muons from extensive air showers	MACHADO PAYERAS, Allan	
Interpreting the high-energy neutrino sky through an angular power spectrum analysis	DEKKER, Ariane	
Muography in the Andes region: applications on geophysics, industry, mining and safeguard applications in Latin America	ASOREY, Hernán	
Latest Results from the Daya Bay Experiment	DOHNAL, Tadeas	
Design of four pixels (2x2) Muon Modular Wireless Detector	ALMELA, Daniel Alejandro	
Development muon detectors using double-synchronized electronics detection for geophysical applications	CALDERÓN-ARDILA, Rolando	
Sub-GeV atmospheric neutrinos, CP violation	IOANNISIAN, Ara	

An End-to-End Test of the Sensitivity of IceCube to the Neutrino Burst from a Core-Collapse Supernova	GRISWOLD, Spencer	
Search for gamma rays above 30 TeV from the Crab Nebula with the GRAPES-3 experiment	PATTANAİK, Diptiranjān	
The upgraded Data Acquisition System of the H.E.S.S. telescope array	ZHU, Sylvia Jiechen	
Statistical properties of flux variations in blazar light curves at GeV and TeV energies	WAGNER, Sarah	
Modelling Spatial and Temporal Emission Properties of the Young Pulsar Wind Nebula Kes 75	VENTER, Christo	
Multiwavelength variability and correlation studies of Mrk421 during historically low X-ray and γ-ray activity in 2015–2016	BANERJEE, Biswajit	
The charge calibration of LHAASO-WCDA	HU, Shicong	
Muons as a tool for background rejection in imaging atmospheric Cherenkov telescope arrays	OLIVERA-NIETO, Laura	
Performance of a proposed event-type based analysis for CTA	HASSAN COLLADO, Tarek	
Time calibration of the LHAASO-WCDA detectors	GAO, Bo	
Telescope Array search for EeV photons	KALASHEV, Oleg	
Measurement and long monitoring of the water transparency in LHAASO-WCDA	LI, Huicai	
Observing the gammas rays emission from the Markarian 421 with the LHAASO-WCDA	WANG, Ran	
The detection of high energy gamma-rays (>40 TeV) from Crab Nebular by a hybrid method of TAIGA installation	SVESHNIKOVA, Lyubov	
Data analysis and key science results of LHAASO-WCDA	ZHA, Min	
Studying the long-term spectral and temporal evolution of 1ES 1959+650	SAKURAI, Shunsuke	
Double-layered Water Cherenkov Detector for SWGO	KUNWAR, Samridha	
Untangling the Complexity in the Galactic Centre: a way to understand the origin of the gamma-ray emission from the inner Galaxy	VENTURA, Sofia	
Design and performance of the prototype Schwarzschild-Couder Telescope camera	TAYLOR, Leslie	
Monte Carlo Simulations and Validation of NectarCAM, a Medium Sized Telescope Camera for CTA	ARMSTRONG, Thomas	
Galactic Science with the ASTRI-Mini Array during the Observatory phase of the project	DAI, Antonino	
The gamma—ray signal from core—collapse supernovae.	CRISTOFARI, Pierre	
The precision of the IACT mechanical mounts of the TAIGA observatory	BORODIN, Artur	
Half ALPACA and its sensitivity to sub-PeV gamma rays from the Galactic Center	YOKOE, Yoshichika	
Time and charge calibration of the LHAASO electromagnetic particle detectors	PANG, Binyu	
Observations of the brightest UHE Gamma-Ray Sources With the LHAASO-KM2A	WU, sha	
The Crab Nebula: observations and a search for gamma-ray flares at UHE with LHAASO	WANG, Lingyu	

Autonomous Environmental and Scientific SWGO site Characterization Instrument	CHYTKA, Ladislav	
Fast X-ray variability of radio galaxy M87	IMAZAWA, Ryo	
Follow-up Analysis to Geminga's contribution to the Local Positron Excess with HAWC Gamma-Ray Observatory	TORRES ESCOBEDO, Ramiro	
A simulation study on the performance of the ALPAQUITA experiment	KATO, Sei	
Study of the eHWC J1825-134 at the Highest Energy with HWAC	HUANG, Dezhi	
Monitoring the radio galaxy M87 with HAWC	CAPISTRÁN, Tomás	
The Cherenkov Telescope Array transient and multi-messenger program	CAROSI, Alessandro	
“Star coverage”, a simple tool to schedule an observation when FOV rotation matters	IOVENITTI, Simone	
Effective pointing of the ASTRI-Horn telescope using the Cherenkov camera with the Variance method	IOVENITTI, Simone	
TeV Analysis of the Probable PWN Component of 3HWC J2031+415	HERZOG, Ian	
Towards a fast simulation of a water Cherenkov detector for gamma ray and cosmic ray experiments.	MARIAZZI, Analisa Gabriela	
Unveiling the complex correlation patterns in Mrk 421	ARBET-ENGELS, Axel	
Study of water Cherenkov detector to determine air shower arrival directions with accuracy	SHIOMI, Atsushi	
VERITAS Observations of the Galactic Center Region at Multi-TeV Gamma-Ray Energies	RYAN, James	
Detection of the Crab Nebula by the prototype Schwarzschild-Couder Telescope	MODE, Brent	
Limits on the Diffuse Gamma-Ray Background with HAWC	DUROCHER , Mora	
Characterizing gamma-ray sources with HAL (HAWC Accelerated likelihood) and 3ML	BRISBOIS, Chad	
Study of the morphology of the region surrounding eHWC J1850+001	BRISBOIS, Chad	
Standardized formats for gamma-ray analysis applied to HAWC observatory data	OLIVERA-NIETO, Laura	
Event rates of UHE photons cascading in the geomagnetic field at CTA-North	ALMEIDA CHEMINANT, Kevin	
Sensitivity reach of gamma-ray measurements for cosmological magnetic fields	KOROCHKIN, Alexander	
The ASTRI Mini-Array Core Science Program	VERCELLONE, Stefano	
Cross-calibration and combined analysis of the CTA-LST prototype and the MAGIC telescopes	OHTANI, Yoshiki	
Study of the water Cherenkov detector design for the SWGO experiment	BISCONTI, Francesca	
MAGIC observations of HESS J1809-193 using the Very Large Zenith Angle technique at energies above TeV	ZARIC, Darko	
Simulation Studies of MACE Gamma Ray Telescope : Estimation of Integral Sensitivity, Angular Resolution and Energy Resolution	BORWANKAR, Chinmay	
A data-driven evaluation of Fermi-LAT extrapolation schemes to the VHE regime.	NIEVAS ROSILLO, Mireia	
VERITAS throughput calibration	NIEVAS ROSILLO, Mireia	
Camera Calibration of the CTA-LST prototype	KOBAYASHI, Yukiho	

SiPM Based Imaging Camera for 4m Class Telescope	CHITNIS, Varsha	
Studying High-Mass Microquasars with HAWC	RHO, Chang Dong	
Commissioning of the camera of the first Large Size Telescope of the Cherenkov Telescope Array	SAITO, Takayuki	
CTA prospects for probing cosmology and fundamental physics with gamma rays	VOVK, Ievgen	
VTSCat: The VERITAS Catalog of Gamma-Ray Observations	PATEL, Sameer	
Prototype Schwarzschild-Couder Telescope for the Cherenkov Telescope Array: Commissioning the Optical System	RIBEIRO, Deivid	
A search for spectral hardening in HAWC sources above 56 TeV	MALONE, Kelly	
Technological options for the Southern Wide-field Gamma-ray Observatory (SWG0) and current design status	WERNER, Felix	
Benchmarking the Science for the Southern Wide-Field Gamma-ray Observatory (SWG0)	BARRES DE ALMEIDA, Ulisses	
H.E.S.S. ToO program on nearby core-collapse Supernovae : search for very-high energy gamma-ray emission towards the SN candidate AT2019krl in M74	KOMIN, Nukri	
Plans and Tests for Stereoscopic and Monoscopic Operation of Four IACTs of the TAIGA Hybrid Experiment	VOLCHUGOV, Pavel	
Modeling non-thermal emission from SN 1987A	BROSE, Robert	
Analytical Model of Magnetically Dominated Jets: Jet Launching, Acceleration, and Collimation	CHEN, Liang	
"The ASTRI Mini-Array: a breakthrough in the Cosmic Ray study"	CARDILLO, MARTINA	
The Southern Wide-field Gamma-ray Observatory reach for Primordial Black Hole evaporation	LOPEZ-COTO, Ruben	
Physics Performance of the Large Size Telescope prototype of the Cherenkov Telescope Array	LOPEZ-COTO, Ruben	
Monitoring the pointing of the Large Size Telescope prototype using star reconstruction in the Cherenkov camera	FOFFANO, Luca	
The VERITAS-Stellar Intensity Interferometry (VSII) survey of Stellar Diameters	KIEDA, David	
Status of the VERITAS Stellar Intensity Interferometry (VSII) System	KIEDA, David	
Design of a Robust Fiber Optic Communications System for Future IceCube Detectors	HALLIDAY, Robert	
A Combined Analysis of IceCube's Muon Track and Cascade Neutrino Data	GANSTER, Erik	
Optimization of the optical array geometry for IceCube-Gen2	OMELIUKH, Anastasiia	
ANTARES - Baikal GVD Alerts Analysis	ALVES GARRE, Sergio	
Studies of systematic uncertainty effects on IceCube's real-time angular uncertainty	LAGUNAS GUALDA, Cristina	
High-Energy Neutrinos From Core-Collapse Supernovae	NECKER, Jannis	
TIME-DEPENDENT PROPAGATION TIMES AND ENERGY LOSSES OF PROTONS IN THE HELIOSPHERE: A SOLAR MODULATION MODELLING IN LIGHT OF NEW COSMIC-RAY DATA FROM OBSERVATIONS	KHIALI, Behrouz	
Precision measurement of daily electrons fluxes by AMS	XU, Weiwei	

Precision Measurement of Daily Helium Fluxes by the Alpha Magnetic Spectrometer	CONSOLANDI, cristina	
Health threat from cosmic radiation during manned missions to Mars	BLOSHENKO, Alexandra D	
Unified thermal model for photohadronic neutrino production in astrophysical sources	FIORILLO, Damiano F. G.	
KM3NeT Acquisition Electronics: New Developments and Advances in Reliability	REAL, Diego	
A shell like kilometer spaced array around Icecube	FARGION, Daniele	
Draw me a Neutrino: the first art contest organized by the KM3NeT Collaboration	CIRCELLA, Marco	
Technological semiotic mediators in didactic to approach cosmic rays and improve students' scientific knowledge	VERONESI, Ilaria	
Students work like astroparticle physicists with Cosmic@Web	LINDENAU, Philipp	
“A scuola di Astroparticelle”: a synergy between school education and scientific research	COLALILLO, Roberta	
The REINFORCE Project	LE BRETON, Rémy	
Making cosmic particle accelerators visible and audible	OHM, Stefan	
A scientific and educational experience to engage high school students to gamma-ray physics	ARAMO, Carla	
Towards Equitable, Diverse, and Inclusive science collaborations: The Multimessenger Diversity Network	BECHTOL, Ellen	
Completing Aganta Kairos: Capturing Metaphysical Time on the Seventh Continent	MADSEN, Jim	
Online Masterclass built on the KASCADE Cosmic ray Data Centre	LINK, Katrin	
Outreach, Education and Communication Initiatives of the CTA Observatory	FERNÁNDEZ-BARRAL, Alba	
Discovering cosmic rays with OCRA: outreach activities for students and teachers	HEMMER, Sabine	
Making particle physics and cosmology accessible for high school students	STOPPEL, Hannes	
Extreme19: when art and science make the front page	PRANDINI, Elisa	
Almost Two Decades of Teaching Astronomy and Astrophysics, and Providing Educational Resources, to Chicago Public School Students and Teachers	DWARKADAS, Vikram	
Outreach and educational activities within the EEE cosmic ray network	PINTO, Chiara	
Transformation of the Physics and Astronomy courses	BEZNOSKO, Dmitriy	
First neutrino oscillation measurement in KM3NeT/ORCA	NAUTA, Lodewijk	
All-flavour search for a diffuse cosmic neutrino flux with ANTARES	FUSCO, Luigi Antonio	
Searches for and Characterization of Astrophysical Neutrinos using Starting Track Events in IceCube	SILVA, Manuel	
Searches for Neutrino Sources with IceCube Cascade Events	SCLAFANI, Stephen	
Characterization of the PeV astrophysical neutrino energy spectrum using down-going tracks	LYU, Yang	
A time-independent search for neutrinos from galaxy clusters with IceCube	NISA, Mehr	
Every Flare, Everywhere: An All-Sky Untriggered Search for Astrophysical Neutrino Transients Using IceCube Data	LUCARELLI, Francesco	
Searching for neutrino transients below 1 TeV with IceCube	LARSON, Michael	

Searches for neutrinos from precursors and afterglows of Gamma-ray Bursts using the IceCube Neutrino Observatory	DEOSKAR, Kunal	
Searching for time-dependent high-energy neutrino emission from X-ray binaries with IceCube	LIU, Qinrui	
Development and Production of Modular Cosmic Ray Telescopes	HE, Xiaochun	
Study of the solar modulation for the cosmic ray isotopes with the PAMELA experiment	LENNI, Alex	
Variation of proton fluxes of galactic cosmic rays during 2012-2020 according to data from the Russian spacecraft in geostationary orbit	BONDAREV, Evgeny	
Relativistic Electron Precipitation Observations with CALET on the International Space Station	BRUNO, Alessandro	
Observation of Z>2 trapped nuclei by AMS on ISS	VALENCIA, Martha	
Low Cost Neutron and Muon Detectors for Soil Moisture Monitoring	STOWELL, Patrick	
Measurement of the re-entrant lepton spectrum with the High-Energy Particle Detector on board CSES-01	SOTGIU, Alessandro	
COSMIC RAY VARIATIONS in November–December, 2012	LUKOVNIKOVA, Anna	
Statistical error for cosmic rays modulation evaluation by 1D and 2D models	MYKHAILENKO, Viacheslav	
Cosmic rays modulation in heliosphere models on GPU	SOLANIK, Michal	
A web application for monitoring cosmic rays and solar activity	PELOSI, David	
MODULATION OF LONG-TERM COSMIC RAY VARIATIONS DURING SOLAR ACTIVITY MINIMUM OF THE 24TH SOLAR CYCLE	DORMAN, Lev	
Comparison of the energy spectra between pileup shock and converging shock	WANG, Xin	
Geant4 Modeling of the EPI-Hi Instrument on Parker Solar Probe to Calculate Solar Energetic Electron Spectra	LABRADOR, A.W.	
Anisotropy of Cosmic Rays and Chaotic Trajectories in the Heliosphere	LÓPEZ-BARQUERO, Vanessa	
Test particle simulations of SEPs originating from an expanding shock-like source	HUTCHINSON, Adam	
Data driven analysis of Galactic cosmic rays in the heliosphere: diffusion of cosmic protons and nuclei	TOMASSETTI, Nicola	
STUDY OF THE MODULATION OF GALACTIC POSITRONS AND ELECTRONS FROM 2006-2016 WITH THE PAMELA EXPERIMENT	MIKHAILOV, Vladimir	
Characteristics of the N-component of the heliospheric magnetic field observed by IMP and ACE over 46 years	BURGER, Renier	
New Data from the ISOIS instrument Suite on Parker Solar Probe	CHRISTIAN, Eric	
Search for neutrinos associated with solar flare	OKAMOTO, Kohei	
Performance of the ISOIS/EPI-Hi instrument on NASA's Parker Solar Probe for measuring ions between ~1 and ~100 MeV/nuc	WIEDENBECK, M.E.	
Study of momentum diffusion with the effect of adiabatic focusing	WANG, junfang	
Suprathermal Electron Acceleration by an ICME-driven Quasi-perpendicular Shock on 2000 Feb 11	KONG, Fanjing	
Measurement of interplanetary magnetic field in short period using the cosmic-ray Sun shadow measured by LHAASO	NAN, Yuncheng	

Disturbances in communication and radar work on the air traffic control tower of the military airport in Deblin.	ISKRA, Krzysztof	
Evolution of electron spectrum during March 2012 by ARINA spectrometer data	MIKHAILOV, Vladimir	
Response functions of semi-leaded neutron monitor count rates and leader rates from latitude surveys during 2019-2020	YAKUM, Panutda	
The effects of magnetic boundary on the uniform distribution of energetic particle intensities observed by multiple spacecraft	WANG, Yang	
A study of variations of galactic cosmic ray intensity based on a hybrid data-processing method	SHEN, Zhenning	
Modeling of the TeV cosmic-ray anisotropy based on intensity mapping in an MHD-simulated heliosphere	SAKO, Takashi K.	
Implications of Solar Magnetograms for the Drifts of Cosmic Rays	FICHTNER, Horst	
Development of the Solar Neutron TRACKing (SONTRAC) Concept	MITCHELL, J. Grant	
TeV Cosmic Rays at the Sun: A Diffusive Approach	KOTA, Jozsef	
ICaRO: a new cosmic ray detector at Izaña Atmospheric Observatory	BLANCO AVALOS, Juan José	
Role of heavier-than-helium nuclei in neutron monitor response: latest results	KOLDOBSKIY, Sergey	
Statistical analysis of Sunspot Area and their Heliospheric Effect for the Period 1986-2016	SINGH, Prithvi Raj	
New insights from cross-correlation studies between Solar activity and Cosmic-ray fluxes	TOMASSETTI, Nicola	
Measurement of the neutron travel time distribution inside a neutron monitor	CHAIWONGKHOT, Kullapha	
Proton fluxes inside the South Atlantic Anomaly measured by the High-Energy Particle Detector (HEPD) on board the CSES-01 satellite during the 2018-2021 period	MARTUCCI, Matteo	
The High-Energy Particle Detector (HEPD) as a space weather monitoring instrument on board the CSES-01 satellite	PALMA, Francesco	
Commissioning of CALLISTO spectrometers in Peru and observations of type III Solar Radio Bursts	BAZO, Jose	
Galactic cosmic ray modulation in the heliosphere based on Australian muon telescopes data. Recurrent variations of cosmic rays intensity and anisotropy	MODZELEWSKA, Renata	
On the solar poloidal magnetic field as one of the main factors for maximum GCR intensity for the last five sunspot minima	KRAINEV, Mikhail	
Cosmic-ray interactions with the Sun	MAZZIOTTA, Mario Nicola	
Determination of Yield Functions of Neutron Counters at the South Pole from Monte-Carlo Simulation	PAGWHAN, Audcharaporn	
Numerical modeling of the solar modulation of helium isotopes in the inner heliosphere	NGOBENI, Donald	
Quality survey of Neutron Monitor data sources for 1951-2019	VÄISÄNEN, Pauli	
Validation of Monte Carlo Yield Function of a Semi-Leaded Neutron Monitor using Latitude Survey Data in 2019 and 2020	SERIPIENLERT, Achara	
Solar magnetic polarity effect on neutron monitor count rates from latitude surveys versus Antarctic stations	POOPAKUN, Kledsai	

Cosmic Rays from the Termination Shock to the Heliopause: the Role of the Heliospheric Current Sheet	KOTA, Jozsef	
Direct Determination of a Bare Neutron Counter Yield Function	NUNTIYAKUL, Waraporn	
A major update of the International GLE Database: Correction for the variable GCR background	USOSKIN, Ilya	

Monday 19 July 2021

Discussion: Presenter Forum 2 – Morning | All Categories - Identical contributions and allocation as in Presenter Forum

1 (12:00 PM-1:30 PM)

Break (1:30 PM-2:00 PM)

Plenary: Review 04 (2:00 PM-3:30 PM)

-Conveners: Andrew Taylor

time	title	presenter
2:00 PM	Neutron Star Mergers as Multi-Messenger Sources	METZGER, Brian
2:45 PM	Propagation of cosmic rays in Galactic turbulence: theory confronted with observations	YAN, Huirong

Break (3:30 PM-4:00 PM)

Plenary: Highlight 07 (4:00 PM-5:30 PM)

-Conveners: Karl-Heinz Kampert

time	title	presenter
4:00 PM	Highlights of LHAASO science results	CAO, Zhen
4:30 PM	Searching for Dark Matter from the Sun with IceCube	LAZAR, Jeffrey
5:00 PM	Polarized muons and the origin of biological homochirality	GLOBUS, Noemie

Break (5:30 PM-6:00 PM)

Discussion: 45 Probing the Distribution of Cosmic Rays in Galaxies | GAD-GAI-CRD (6:00 PM-7:30 PM)

title	presenter	board
A study of super-luminous stars with the Fermi Large Area Telescope	DE MENEZES, Raniere	
Probing Galactic cosmic rays with γ -ray observations of giant molecular clouds	PERON, Giada	
Signatures of Recent Cosmic-Ray Acceleration in the High-Latitude gamma-Ray Sky	JOHANNESSON, Gudlaugur	
Cosmic-ray variations in the solar neighbourhood	GRENIER, Isabelle	
Multi-wavelength probes of the Fermi GeV excess	BERTEAUD, Joanna	
Giant cosmic ray halos around M31 and the Milky Way	GABICI, Stefano	
Analyzing the Fermi Bubbles with DAMPE	SHEN, Zhaoqiang	
Measurement of the diffuse gamma-ray emission from Galactic plane with LHAASO-KM2A	ZHAO, shiping	
Gamma-gamma absorption in the Galactic Center	CONTE, Francesco	
A Novel Approach towards the Search for Gamma-ray Emission from the Northern Fermi Bubble with HAWC	SURAJBALI, Pooja	
Galactic diffuse emission of gamma rays and neutrinos of energy above 100 TeV	VERNETTO, Silvia	

Galactic Diffuse Emission Analysis With HAWC Data	NAYERHODA, Amid	
Observation of ultra-high-energy diffuse gamma rays from the galactic plane with the Tibet air shower array	KAWATA, Kazumasa	
Search for TeV emission from the base of the Fermi Bubbles with H.E.S.S.	MOULIN, Emmanuel	
Search for enhanced TeV gamma ray emission from Giant Molecular Clouds using H.E.S.S.	SINHA, Atreyee	
Stochastic Fluctuations of Low-Energy Cosmic Rays and the Interpretation of Voyager Data	PHAN, Vo Hong Minh	
Interstellar cosmic-ray spectra (1) just outside the heliosphere and (2) in the local medium: are they the same?	ORLANDO, Elena	
A new GeV-TeV particle component and the barrier of cosmic-ray sea in the CMZ region	HUANG, Xiaoyuan	

Discussion: 39 Astrophysical Neutrinos – Theoretical & Experimental Results | NU (6:00 PM-7:30 PM)

title	presenter	board
A New Search for Neutrino Point Sources with IceCube	NIEDERHAUSEN, Hans	
IceCube Search for High-Energy Neutrinos from Ultra-Luminous Infrared Galaxies	CORREA, Pablo	
Search for an association between neutrinos and radio-selected blazars with ANTARES	AUBLIN, Julien	
High-Energy Neutrinos from Non-Relativistic Shock-Powered Transients	FANG, Ke	
Search for high-energy neutrino emission from hard X-ray AGN	GOSWAMI, Sreetama	
Search for Astrophysical Neutrino Transients with IceCube DeepCore	CHEN, Chujie	
Searches for point-like sources of cosmic neutrinos with 13 years of ANTARES data	ILLUMINATI, Giulia	
Neutrino predictions from choked GRBs and comparison with the observed cosmic neutrino flux	DI PALMA, Irene	
Very high energy neutrinos from Gamma Ray Bursts in dense clusters	ŚMIAŁKOWSKI, Andrzej	
Neutrinos from galactic sources	NIRO, Viviana	
Unraveling the nature of GRBs progenitors through neutrinos	MORALES, Gibran	
High-Energy Neutrino Production in Clusters of Galaxies	HUSSAIN, Saqib	

Discussion: 18 Cosmic Ray Secondary nuclei: observations and impact on theories | CRD (6:00 PM-7:30 PM)

title	presenter	board
GALPROP Framework for Galactic Cosmic Ray Propagation and Associated Photon Emissions	MOSKALENKO, Igor	
Study Of Cosmic Ray Spectral Hardening Using GALPROP	WU, Hongyi	
Cosmic-ray propagation analyses and implications of current spallation cross sections parametrisations with the DRAGON2 code	DE LA TORRE LUQUE, Pedro	
Measurement of Nuclear Fragmentation Cross Sections with NA61/SHINE for a better understanding of the Propagation of Cosmic-Ray Nuclei in the Galaxy	AMIN, Neeraj	

Properties of Heavy Secondary Fluorine Cosmic Rays Results from the Alpha Magnetic Spectrometer	YAN, Qi	
Interpretation of the spectral inhomogeneity in the 10TV region in terms of a close source	YUROVSKY , Vladimir	
Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer	GIOVACCHINI, Francesca	
Cosmic-ray beryllium isotope ratio measured by BESS Polar-II	WADA, Takuya	
A unified picture for three different cosmic-ray observables.	GAGGERO, Daniele	
Combined analysis of AMS-02 secondary-to-primary ratios: universality of cosmic ray propagation and consistency of nuclear cross sections	VECCHI, Manuela	
Implications of Li to O data of AMS-02 on our understanding cosmic-ray propagation	KORSMEIER, Michael	
Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays with the DAMPE Experiment	YUE, Chuan	
Progress on Ultra-Heavy Cosmic-Ray Analysis with CALET on the International Space Station	ZOBER, Wolfgang	
Properties of Light Primary and Secondary Cosmic Rays He-C-O and Li-Be-B Measured with the AMS on the ISS	GAST, Henning	
Cosmic-Ray Isotopes with the Alpha Magnetic Spectrometer	DEROME, Laurent	
Precision Measurement of Cosmic Ray Deuterons with the Alpha Magnetic Spectrometer	FERRONATO BUENO, Eduardo	
Measurement of the cosmic-ray secondary-to-primary ratios with CALET on the International Space Station	AKAIKE, Yosui	

Discussion: 30 Schools and tools | O&E (6:00 PM-7:30 PM)

title	presenter	board
Collaboration between high schools in Japan and Argentina for cosmic-ray research using Cosmic Watches	NAKAMORI, Takeshi	
Cosmic rays and the structure of the universe studied in Cosmic Ray Extremely Distributed Observatory with citizen science	KAMINSKI, Robert	
Development of a portable SiPM scintillator tracker for cosmic rays	PILLERA, Roberta	
QuarkNet High School Cosmic Ray Projects	ADAMS, Mark	
Astro-photography as an effective tool for Outreach and Education: IACT in exposition	IOVENITTI, Simone	
The 2021 Open-Data release by the Pierre Auger Collaboration	SCHERINI, Viviana	
Global Cosmic-Ray studies educational platform	BRUANT GULEJOVA, Barbora	
MoCRiS a low-cost stratospheric balloon platform to measure the particle flux of cosmic ray showers in the high atmosphere.	BOCCI, Valerio	

Discussion: 09 Atmospheric and geophysical phenomena | CRI (6:00 PM-7:30 PM)

title	presenter	board
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Relativistic dust grains: a new subject of research with orbital fluorescence detectors	KLIMOV, Pavel	
A study on UV emission from clouds with Mini-EUSO	GOLZIO, Alessio	
A search for bursts at 0.1 PeV with a small air shower array.	CLAY, Roger	
Observation of Variations in Cosmic Ray Shower Rates During Thunderstorms and Implications for Large-Scale Electric Field Changes	ABBASI, Rasha	
The lateral distribution of vertical and inclined showers during thunderstorms at LHAASO observatory	ZHOU, Xunxiu	
Study on multi-ELVES in the Pierre Auger Observatory	VÁSQUEZ RAMÍREZ, Adriana	
Satellite Data for Atmospheric Monitoring at the Pierre Auger Observatory	PUYLEART, Andrew	
Downward Terrestrial Gamma-ray Flashes in Auger?	COLALILLO, Roberta	
The azimuthal distribution of thunderstorm events recorded by the GRAPES-3 experiment	HARIHARAN, Balakrishnan	
A lightning detection system for studying transient phenomena in cosmic rays observatories	PEÑA-RODRÍGUEZ, Jesús	
Observation of Transient Luminous Events with the Mini-EUSO telescope on board the ISS	MARCELLI, laura	
The progress of High-Energy Physics in Atmosphere achieved with the implementation of particle physics and nuclear spectroscopy methods	CHILINGARIAN, Ashot	
Insight Into Lightning Initiation via Downward Terrestrial Gamma-ray Flash Observations at Telescope Array	REMLINGTON, Jackson	

Tuesday 20 July 2021

Discussion: 10 EAS reconstruction and analyses | CRI (12:00 PM-1:30 PM)

title	presenter	board
Reconstruction of Events Recorded with the Water-Cherenkov and Scintillator Surface Detectors of the Pierre Auger Observatory	SCHMIDT, David	
Neutron production in extensive air showers	ENGEL, Ralph	
Muography for the Colombian Volcanoes	NUNEZ, Luis	
A study of the Moon shadow by using GRAPES-3 muon telescope	ZUBERI, Meeran	
Reconstruction of Nearly-Horizontal Muons in the HAWC Observatory	SPRINGER, R. Wayne	
The Energy Scale Calibration using the Moon Shadow of LHAASO-WCDA Detector	WANG, Yanjin	
Simulation study for the future IceCube-Gen2 surface array	LESZCZYŃSKA, Agnieszka	
TAx4 Hybrid Simulation and Reconstruction	GONZALEZ, Ricardo	

Discussion: 40 Dark Matter Indirect Detection and Cosmological Substructures | DM (12:00 PM-1:30 PM)

title	presenter	board
Sensitivity of the Cherenkov Telescope Array to dark subhalos	CORONADO-BLÁZQUEZ, Javier	
Shedding light on low-mass subhalo survival with numerical simulations	AGUIRRE-SANTAELLA, Alejandra	
Searching for dark matter subhalos with the Fermi-LAT	CORONADO-BLÁZQUEZ, Javier	
Dark Matter search in dwarf irregular galaxies with the Fermi Large Area Telescope	GAMMALDI, Viviana	
The sensitivity of the Cherenkov Telescope Array to gamma-ray emission from the Perseus galaxy cluster	PÉREZ-ROMERO, Judit	
Searching for isolated black holes in the Milky Way	SCARCELLA, Francesca	
Optical Microlensing by Primordial Black Holes with IACTs	PFRANG, Konstantin Johannes	
Search for dark matter annihilation signals from unidentified Fermi-LAT objects with H.E.S.S.	MALYSHEV, Denys	
Exploring MeV gamma rays from dark matter annihilation and evaporating primordial black holes in the GRAMS experiment	LEYVA, Jonathan	
Classification of targets for gamma-ray dark matter searches with velocity-dependent annihilation and substructure boost	STREF, Martin	
Limits on primordial black hole evaporation from H.E.S.S. observations.	TAVERNIER, Thomas	

Discussion: 56 New Instruments, Performance & Future Projects for Ground-Based Gamma-Ray Astronomy | GAI (12:00 PM-1:30 PM)

title	presenter	board
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Development of an advanced SiPM camera for the Large Size Telescope of the Cherenkov Telescope Array Observatory	HELLER, Matthieu	
STACEX: a RPC-based detector for a multi-messenger Southern observatory in the GeV-PeV range	RODRIGUEZ FERNANDEZ, Gonzalo	
The high-energy upgrade of the HAWC observatory: operation, calibration and performance.	JARDIN-BLICQ, Armelle	
The TAIGA - an advanced hybrid detector complex for astroparticle physics, cosmic ray physics and gamma-ray astronomy	BUDNEV, Nikolay	
Current status of ALPACA for exploring sub-PeV gamma-ray sky in Bolivia	SAKO, Takashi	
The ASTRI mini-array at Teide Observatory	ANTONELLI, Lucio Angelo	
Performance of the new FlashCam-based camera in the 28m telescope of H.E.S.S.	BI, Baiyang	
Current Status of electromagnetic particle detectors for LHAASO-KM2A	LIU, jia	
Operation of the LHAASO-WCDA	LIU, Cheng	
Simulating the performance of the Southern Wide-view Gamma-ray Observatory	SCHOORLEMMER, Harm	
The Carpet-3 EAS array: a current status	ROMANENKO, Viktor	
Simulations performance for an array of refractive air-Cherenkov telescopes HAWC's Eye in hybrid setup with the HAWC Observatory	SERNA-FRANCO, José	
Expected performance of the ALTO particle detector array designed for 200 GeV - 50 TeV gamma-ray astronomy.	SENNIAPPAN, Mohanraj	
Status and results of the prototype Large Size Telescope of CTA	MAZIN, Daniel	
Status update of MACE Gamma-ray telescope	YADAV , Kuldeep	

Discussion: 38 The Future of Neutrino Telescopes | NU (12:00 PM-1:30 PM)

title	presenter	board
Feasibility of detecting B8 solar neutrinos at JUNO	ZHAO, Jie	
Potential of Core-Collapse Supernova Neutrino Detection at JUNO	HUANG, Xin	
JUNO Physics Prospects	ATHAYDE MARCONDES DE ANDRÉ, João Pedro	
Pacific Ocean Neutrino Experiment (P-ONE): prototype line development	SPANNFELLNER, Christian	
The Radar Echo Telescope for Neutrinos (RET-N)	DE VRIES, Krijn	
Prospects for neutrino astrophysics with Hyper-Kamiokande	YANO, Takatomi	
SK-Gd looks forward	MARTI MAGRO, Lluís	
Prospects for neutrino-flavor physics with in-ice radio detectors	GLASER, Christian	
New interactions of ultra-high-energy neutrinos: end-to-end forecasts for upcoming neutrino telescopes	BUSTAMANTE, Mauricio	
Simulation and sensitivities for a phased IceCube-Gen2 deployment	CLARK, Brian	
The Radar Echo Telescope for Cosmic Rays (RET-CR): Pathfinder Experiment for a Next-Generation Neutrino Observatory	PROHIRA, Steven	
Diffuse Supernova Neutrino Background Detection at JUNO	CHENG, Jie	
A new Baksan Large Neutrino Telescope: the project's status	USHAKOV, Nikita	
Status and prospects of the Hyper-Kamiokande project	ITOW, Yoshitaka	

Low-energy astrophysics with KamLAND	KAWADA, Nanami	
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Discussion: 46 Supernova Remnants | GAD-GAI-CRD (12:00 PM-1:30 PM)

title	presenter	board
SNR G39.2-0.3, an hadronic cosmic rays accelerator	SUSHCH, Iurii	
Revealing G150.3+4.5 as a dynamically young supernova remnant with gamma-ray data	DEVIN, Justine	
Gamma-rays from young SNRs in dense circumstellar environments	MACKEY, Jonathan	
Observations of SNR Candidate HESS J1614-518 with Fermi-LAT	GUO, Xiao-Lei	
Analysis of the W 44 Supernova Remnant and its surroundings with Fermi-LAT and MAGIC	DI VENERE, Leonardo	
Non-thermal radio supernova remnants of exiled Wolf-Rayet stars	MEYER, Dominique	
Wind nebulae and supernova remnants of very massive stars	MEYER, Dominique	
Revealing supernova remnant G106.3+2.7 as a PeVatron	LIU, Ruo-Yu	
Particle escape from supernova remnants and related gamma-ray signatures	CELLI, Silvia	
A GeV to TeV view of shell-type SNRs	FLEISCHHACK, Henrike	
Gamma-ray morphology of SNRs and their halos	BROSE, Robert	
Deep observations of Kepler's SNR with H.E.S.S.	PROKHOROV, Dmitry	
LMC N132D: a mature supernova remnant with a youthful spectrum	VINK, Jacco	
Investigating the Vela SNR's Emission of Electron Cosmic Rays with CALET at the International Space Station	MOTZ, Holger	
HESS J1858+020: A GeV-TeV source possibly powered by CRs from SNR G35.6-0.4	XIN, Yuliang	

Break (1:30 PM-2:00 PM)

Plenary: Review 05 (2:00 PM-3:30 PM)

-Conveners: Martin Pohl

time	title	presenter
2:00 PM	Energetic particle observations close to the Sun by Solar Orbiter and Parker Solar Probe	MALANDRAKI, Olga E.
2:45 PM	Turbulence and its impact on particle acceleration/transport and the implications on gamma-ray observations	XU, Siyao

Break (3:30 PM-4:00 PM)

Plenary: Highlight 08 (4:00 PM-5:30 PM)

-Conveners: Christopher Wiebusch

time	title	presenter
4:00 PM	Theory of particle acceleration	DIESING, Rebecca
4:30 PM	Atmospheric neutrino oscillations with Super-Kamiokande and prospects for SuperK-Gd	FERNANDEZ MENENDEZ, Pablo

5:00 PM	The advantages of making science accessible	LABBÉ, Erika
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Break (5:30 PM-6:00 PM)**Discussion: 27 GW Follow-Up Observation | MM (6:00 PM-7:30 PM)**

title	presenter	board
H.E.S.S. follow-up of BBH merger events	ASHKAR, Halim	
The H.E.S.S. Gravitational Wave Rapid Follow-up Program during O2 and O3	ASHKAR, Halim	
Follow-up observations of GW170817 with the MAGIC telescopes	STAMERRA, Antonio	
Searching for very-high-energy electromagnetic counterparts to gravitational-wave events with the Cherenkov Telescope Array	PATRICELLI, Barbara	
Follow-up of GWTC-2 Gravitational Wave events with neutrinos from the Super-Kamiokande detector	LAMOUREUX, Mathieu	
An Archival Search for Neutron-Star Mergers with Gravitational Waves and Very-High-Energy Gamma Rays	ADAMS, Colin	
Gravitational Wave Follow-Up Using Low Energy Neutrinos in IceCube DeepCore	BALAGOPAL V., Aswathi	
Follow-up Search for UHE Photons from Gravitational Wave Sources with the Pierre Auger Observatory	RUEHL, Philip	
Combined Search for UHE Neutrinos from Binary Black Hole Mergers with the Pierre Auger Observatory	SCHIMP, Michael	
Gamma-ray burst observation & gravitational wave event follow-up with CALET on the International Space Station	KAWAKUBO, Yuta	
Multi-messenger searches via IceCube's high-energy neutrinos and gravitational-wave detections of LIGO/Virgo	VESKE, Doğa	

Discussion: 57 New Physics | CRD-CRI-DM-GAD-GAI-NU-MM-SH (6:00 PM-7:30 PM)

title	presenter	board
Potential for 3+1 and Lorentz violation measurements with DUNE	SCHNEIDER, Austin	
Modeling intrinsic time-lags in flaring blazars in the context of Lorentz Invariance Violation searches	LEVY, Christelle	
Robust constraints on Lorentz Invariance Violation from H.E.S.S., MAGIC and VERITAS data combination	LEVY, Christelle	
Recent results on LIV studies using MAGIC telescopes from the observation of GRB 190114C	D'AMICO, Giacomo	
Photon decay in UHE air showers: a stringent bound on Lorentz violation	DUENKEL, Fabian	
Constraining Lorentz Invariance Violation using the muon content of extensive air showers measured at the Pierre Auger Observatory	TRIMARELLI, Caterina	

Discussion: 11 UHECR Acceleration | CRI (6:00 PM-7:30 PM)

title	presenter	board
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Ultra-high-energy cosmic ray acceleration by magnetic reconnection in relativistic jets and the origin of very high energy emission	DE GOUVEIA DAL PINO, Elisabete	
Ultra-High-Energy Cosmic Rays and Neutrinos from relativistic jets of Active Galactic Nuclei	MBAREK, Rostom	
Particle acceleration at the discontinuous flow boundary of collimated cylindrical jets	O'SULLIVAN, Stephen	
Acceleration of ultrahigh-energy cosmic rays in the early afterglows of gamma-ray bursts: concurrence of jet's dynamics and wave-particle interactions	ZE-LIN, Zhang	

Discussion: 53 PWN and Halos | GAD-GAI (6:00 PM-7:30 PM)

title	presenter	board
Morphology of Gamma-ray Halos around Middle-aged Pulsars: Influence of the Pulsar Proper Motion	ZHANG, Yi	
The role of unresolved PWNe to the gamma-ray diffuse emission at GeV	PAGLIAROLI, Giulia	
Energy-dependent Morphological Study of HESS J1857+026 with Fermi-LAT	GUO, Xiao-Lei	
Systematic search for halos around pulsars in Fermi-LAT data	ABDOLLAHI, Soheila	
Detection of extended TeV emission around the Geminga pulsar with H.E.S.S.	MITCHELL, Alison	
Origin of the very high energy gamma-ray emission from pulsar wind nebulae	GIACINTI, Gwenael	
Observations of extended very-high-energy halos around Geminga and Monogem with the LHAASO-KM2A	GUO, yingying	
Cosmic ray transport in the proximity of pulsars and the formation of gamma-ray halos	RECCHIA, Sarah	
Study of the gamma-ray emission from 3HWC J1928+178	JARDIN-BLICQ, Armelle	

Discussion: 43 New and Upcoming Instruments for Space-Based Gamma-Ray Astronomy | GAD (6:00 PM-7:30 PM)

title	presenter	board
Development and science perspectives of the POLAR-2 instrument: a large scale GRB polarimeter	DE ANGELIS, Nicolas	
MeVCube: a CubeSat for MeV astronomy	LUCCHETTA, Giulio	
The Crystal Eye X and gamma ray detector for space missions	BARBATO, Felicia	
New Mission Concept: Galactic Explorer with a Coded Aperture Mask Compton Telescope (GECCO)	MOISEEV, Alexander	
Performance of the HEPD-02 LYSO calorimeter and expected sensitivity to GRBs detection	PERCIBALLI, Stefania	
AMEGO-X: MeV gamma-ray Astronomy in the Multi-messenger Era	FLEISCHHACK, Henrike	
Gamma-ray performance study of the HERD payload	FARINA, Luis	
BurstCube: status and public alerts	MARTINEZ-CASTELLANO S, Israel	
A compact germanium spectrometer for nuclear astrophysics	HUGHES, Zachary	
The Advanced Particle-astrophysics Telescope (APT) Project Status	BUCKLEY, James	

GRAINE precise γ-ray observations: latest results on 2018 balloon-borne experiment and prospects on next/future scientific experiments	TAKAHASHI, Satoru	
Overview of the GRAMS (Gamma-Ray AntiMatter Survey) Project	ARAMAKI, Tsuguo	
The Compton Spectrometer and Imager Project for MeV Astronomy	TOMSICK, John	

Wednesday 21 July 2021

Discussion: 13 New Instrumentation and Tools for EAS Detection | CRI (12:00 PM-1:30 PM)

title	presenter	board
ROBAST 3	OKUMURA, Akira	
Electrical signals induced in detectors by cosmic rays: a reciprocal look at electro-dynamics	WINDISCHHOFER, Philipp	
Simulation of single, double, and triple layer GEM detectors	JUNG, Aera	
CORSIKA below the knee	WIBIG, Tadeusz	
Study of the Electron-Neutron Detector Array (ENDA) in Yangbajing, Tibet	XIAO, Dixuan	
Latest results of ultra-high-energy cosmic ray measurements with prototypes of the Fluorescence detector Array of Single-pixel Telescopes (FAST)	FUJII, Toshihiro	
FOV direction and real image size calibration of Fluorescence Detector using light source mounted on the UAV	NAKAZAWA, Arata	
New coordinate-tracking detector on drift chambers for registration of muons in near-vertical EAS	VOROBIEV, Vladislav	
Status of the novel CORSIKA 8 air shower simulation framework	ALVES JUNIOR, Antonio Augusto	
Development of drone-borne aerial calibration pulser system for radio observatories of ultra-high energy air showers	KUO, Chung-Yun	
Acquisition of data from a Water Cherenkov Detector based on an on purpose acquisition card	MORENO BARBOSA, Eduardo	
Pulse Shape Discrimination for Online Data Acquisition in Water Cherenkov Detectors Based on FPGA/SoC	GARCIA ORDONEZ, Luis Guillermo	
Efficiency estimation of self-triggered antenna clusters for air-shower detection	BEZYAZEEKOV, Pavel	
The YAG Lidar System Applied in LHAASO	SUN, Qinning	
Calibration of LHAASO-WFCTA	CHEN, Long	
Application of the nitrogen laser calibration system in LAASO-WFCTA	LI, Xin	
Denoising cosmic rays radio signal using Wavelets techniques	WATANABE, Clara	
Adaptive predictor as trigger mechanism for cosmic ray radio signals corrupted by Gaussian noise	WATANABE, Clara	
Status of simulation and data comparison of wca-1	WU, hanrong	
An Advanced Triggerless Data Acquisition System for GRAPES-3 Muon Detector	JAIN, Atul	
Integration and qualification of the Mini-EUSO telescope on board the ISS	CAMBIÈ, Giorgio	
EUSO-SPB2 Telescope Optics and Testing	KUNGEL, Viktoria	
AugerPrime Upgraded Unified Board: The New Front-End Electronics	MARSELLA, Giovanni	
Towards a full and realistic simulation framework for the Extreme Energy Events experiment	GRAZZI, Stefano	
Development of a scintillation and radio hybrid detector array at the South Pole	OEHLER, Marie	
Reconstruction of sub-threshold events of cosmic-ray radio detectors using an autoencoder	BEZYAZEEKOV, Pavel	
Electromagnetic Shower Simulation for CORSIKA 8	ALAMEDDINE, Jean-Marco	

The XY Scanner - A Versatile Method of the Absolute End-to-End Calibration of Fluorescence Detectors	SCHÄFER, Christoph	
Progress in optimizing the detection surface structure of CRAFT	KUBOTA, Yuto	
Development of autonomous observation system for next-generation cosmic ray telescope	TOMIDA, Takayuki	
Tunka-Rex Virtual Observatory	LENOK, Vladimir	
Overview of the Mini-EUSO μ trigger logic performance	BATTISTI, Matteo	
Sensitivity of the Tibet hybrid experiment (Tibet-III + MD) for primary proton spectra between 30 TeV and a few hundreds of TeV's	KURASHIGE, Daichi	
A drone-borne installation for studying the composition of cosmic rays in the range of 1-1000 PeV by registering the reflected Cherenkov light of EAS	VAIMAN, Igor	
Test of the Electron-Neutron Detector Array (ENDA) in Laboratory	YANG, Fan	
Tools and Procedures for the ASTRI Mini-Array Calibration	MINEO, Teresa	

Discussion: 41 Indirect Dark Matter Detection Through Photons and Neutrinos | DM (12:00 PM-1:30 PM)

title	presenter	board
Multimessenger constraints on the dark matter interpretation of the Fermi-LAT Galactic center excess	DI MAURO, MATTIA	
Hunting for Dark Matter and New Physics with (a) GECCO	STEFANO, Profumo	
Cherenkov Telescope Array Sensitivity to the Putative Millisecond Pulsar Population responsible for the Galactic Center Excess	MACIAS, Oscar	
Search for axion-like-particle induced gamma-ray bursts from core-collapse supernovae with the Fermi LAT	MEYER, Manuel	
Integral X-ray constraints on sub-GeV dark matter	PINETTI, Elena	
Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre	ECKNER, Christopher	
Search for Gamma-ray Line emission from Dark Matter annihilation in the Galactic Centre with the MAGIC telescopes	INADA, Tomohiro	
Dark Matter annihilation to neutrinos: New limits and future prospects	KHEIRANDISH, Ali	
Searching for Dark Matter with the Southern Wide-field Gamma-ray Observatory (SWG0)	VIANA, Aion	
Indirect Searches for Secluded Dark Matter	SIQUEIRA, Clarissa	
Indirect dark matter searches with neutrinos from the Galactic Centre region with the ANTARES and KM3NeT telescopes	GOZZINI, Sara Rebecca	
Dark Matter Searches for heavy Dark Matter with LHAASO	ADDAZI, Andrea	
Constraints on decaying dark matter with LHAASO-KM2A	CHIANESE, Marco	

Discussion: 24 Ground-based measurements of low-energy GCRs | SH (12:00 PM-1:30 PM)

title	presenter	board
A Peculiar ICME Event in August 2018 Observed with the Global Muon Detector Network	MUNAKATA, KAZUOKI	

Multiple Particle Detection in a Neutron Monitor	EVENSON, Paul	
New neutron monitor altitude-dependent yield function and its application to an analysis of neutron-monitor data	KOLDOBSKIY, Sergey	
Study of the anisotropy of cosmic rays during the periods of the minima of the 24th solar cycle using the muonography method according to the data of the URAGAN muon hodoscope	YASHIN, Igor	
Galactic Cosmic Ray increase associated to an interplanetary magnetic cloud observed by HAWC	LARA, Alejandro	
High-resolution two-dimensional map of the solar-time anisotropy obtained by the GRAPES-3 large-area muon telescope	KOI, Tatsumi	
First results of the SA Agulhas II mobile mini-neutron monitor: Instrumental characterization and environmental sensitivity	STRAUSS, Du Toit	
Simultaneous observation of cosmic rays with muon detector and neutron monitor at the Syowa station in the Antarctic	KATO, Chihiro	
Continuously Measurements of Energy Spectra of Cosmic-Ray-induced-neutrons on the Concordia Antarctic Station for the period 2015-2021	HUBERT, guillaume	

Discussion: 26 Galactic Sources & Winds | MM (12:00 PM-1:30 PM)

title	presenter	board
Simulating cosmic rays and the gamma-ray emission in star-forming galaxies	WERHAHN, Maria	
Exploring galactic wind superbubbles by multimessenger observations	PERETTI, Enrico	
Predicting Neutrino Emission for the Sources in the H.E.S.S. Galactic Plane Survey	BATZOFIN, Rowan	
A hot spot in the neutrino flux created by cosmic rays from Cygnus loop	BOUYAHIAOUI, makarim	
Starburst Galaxies as possible sources of UHECRs and neutrinos	CONDORELLI, Antonio	
Search for correlations between high-energy gamma rays and neutrinos with the HAWC and ANTARES detectors	FERRARA, Giovanna	
NuSTAR broad-band X-ray observation campaign of energetic pulsar wind nebulae in synergy with VERITAS, HAWC and Fermi gamma-ray telescopes	MORI, Kaya	
Expectations for the high-energy neutrino detection from starburst galaxies with KM3NeT/ARCA	IDRISSI IBNSALIH, Walid	
A multi-wavelength view of the cosmic ray confinement in star-forming galaxies	KORNECKI, Paula	
Particle acceleration in winds of star clusters	MORLINO, Giovanni	
The Ultra-High-Energy Source MGRO J1908+06	MALONE, Kelly	
Revisiting the PeVatron candidate MGRO J1908+063 with an updated H.E.S.S. analysis	KOSTIUNIN, Dmitriy	

Discussion: 54 Gamma-Ray Bursts in the VHE regime | GAI (12:00 PM-1:30 PM)

title	presenter	board
Shedding light on the highest energy emission from GRBs with MAGIC observations	BERTI, Alessio	
Very-high-energy gamma-ray emission from GRB 201216C detected by MAGIC	FUKAMI, Satoshi	

Monitoring Gamma-Ray Burst VHE emission with the Southern Wide-field-of-view Gamma-ray Observatory	LA MURA, Giovanni	
TeV Transients with the ASTRI Mini-Array: a case study with GRB 190114C	STAMERRA, Antonio	
Upper limits on VHE emission from GRBs	FRANCESCO, Longo	
CONSTRAINTS ON THE VERY HIGH ENERGY GAMMA-RAY EMISSION FROM GRB170206A WITH HAWC.	PÉREZ, Yunion	
First follow-up of transient events with the CTA Large Size Telescope prototype	CAROSI, Alessandro	
The Latin American Giant Observatory (LAGO) capabilities for detecting Gamma Ray Bursts	SARMIENTO CANO, Christian	
Search for very high energy γ-ray emission from γ GRB~190829A with LHAASO-WCDA1 triggerless data	YAO, yuhua	

Break (1:30 PM-2:00 PM)**Plenary: Highlight 09 (2:00 PM-3:30 PM)****-Conveners: Alexander Kappes**

time	title	presenter
2:00 PM	Extragalactic cosmic ray sources	KACHELRIESS, Michael
2:30 PM	CTA – the World's largest ground-based gamma-ray observatory	ZANIN, Roberta
3:00 PM	The Askaryan Radio Array (ARA)	HOFFMAN, Kara

Break (3:30 PM-4:00 PM)**Plenary: Theater of Dreams (4:00 PM-5:30 PM)****-Conveners: Razmik Mirzoyan**

time	title	presenter
4:00 PM	The Southern Wide-field Gamma-ray Observatory: Status and Prospects	HINTON, Jim
4:18 PM	The Pacific Ocean Neutrino Experiment at Ocean Networks Canada	RESCONI, Elisa
4:36 PM	The Radio Neutrino Observatory Greenland (RNO-G)	WISSEL, Stephanie
4:54 PM	The High Energy cosmic-Radiation Detection (HERD) facility on board the Chinese Space Station: hunting for high-energy cosmic rays	GARGANO, Fabio
5:12 PM	GCOS	HÖRANDEL, Jörg

Break (5:30 PM-6:00 PM)**Plenary: Sustainability (6:00 PM-7:30 PM)****-Conveners: Stefan Funk; Uli Katz; Markus Roth**

time	title	presenter
6:00 PM	Sustainability in Astroparticle Physics	FUNK, Stefan

Thursday 22 July 2021

Plenary: Rapporteur 1 (2:00 PM-3:30 PM)

-Conveners: **Andreas Haungs**

time	title	presenter
2:00 PM	Rapporteur Talk: Cosmic Ray Indirect	ABU-ZAYYAD, Tareq
2:45 PM	Rapporteur Talk: Cosmic Ray Direct	MERTSCH, Philipp

Break (3:30 PM-4:00 PM)

Plenary: Rapporteur 2 (4:00 PM-6:00 PM)

-Conveners: **Marc Schumann**

time	title	presenter
4:00 PM	Rapporteur Talk: Dark Matter	TAOSO, Marco
4:45 PM	Rapporteur Talk: Solar and Heliospheric	STRAUSS, Du Toit
5:30 PM	Rapporteur Talk: Outreach and Education	BURTON, Michael

Friday 23 July 2021

Plenary: Rapporteur 3 (2:00 PM-3:30 PM)

-Conveners: Elisa Resconi

time	title	presenter
2:00 PM	Rapporteur Talk: Multi Messenger	TAMBORRA, Irene
2:45 PM	Rapporteur Talk: Neutrinos and Muons	NELLES, Anna Friederike

Break (3:30 PM-4:00 PM)

Plenary: Rapporteur 4 (4:00 PM-5:30 PM)

-Conveners: Ullrich Schwanke

time	title	presenter
4:00 PM	Rapporteur Talk: Gamma Ray Direct	CAPUTO, Regina
4:45 PM	Rapporteur Talk: Gamma Ray Indirect	MITCHELL, Alison

Plenary: Closing (5:30 PM-6:30 PM)